

March 24, 2016

Ms. Emilee Adamson Piedmont Regional Office Virginia Department of Environmental Quality 4949-A Cox Road Richmond, Virginia 23060

Application for Renewal and Modification VPDES Permit 00088978, Black Swamp WWTF

Dear Ms. Adamson:

As discussed during our meeting with the Department on November 9, 2015, Sussex Service Authority, with support from Sussex County and Timmons Group, is designing upgrades to the Black Swamp WWTF. The purpose of the upgrades is to provide additional treatment and discharge capacity that will support a mega-site development on commercial property owned by Sussex County in proximity to the Black Swamp WWTF. The schematic design phase is underway. We anticipate that the final design will be completed the first to latter part of June 2016. The schedule for implementing the upgrades is pending once funding is secure.

Attached is an application for renewal and modification of VPDES Permit 00088979, Black Swamp Wastewater Treatment Facility (WWTF). The current permit expires on January 31, 2017, therefore the application for renewal is due on or before August 4, 2016. The intent is to apply for the modification at the time of renewal to avoid submitting two applications within a relatively short period of time and to secure firm effluent limits for the increased discharge prior to completing the schematic design phase of the project.

Based on our discussions during the previous meeting, since the Department is unable to model the receiving water's response to the increased discharge, the limits of the modified permit will be based on the Department's "Swamp Limits, "maximum monthly averages for total suspended solids, carbonaceous biochemical oxygen demand, total ammonia, and total Kjeldahl nitrogen of 20, 10, 0.81 and 3.0 mg/L respectively. This application is for these "swamp limits" to be tiered with respect to phased treatment and disposal capacities of 0.6/ 0.99/ 1.6 MGD respectively.



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MAR 30 2016

This application includes, complete Forms 1, 2A, Lab Sheets for the Form 2A Part D Expanded Effluent Testing Data, a completed VPDES Sewage Sludge Permit Application Form, and a completed VPDES Permit Application Addendum.

If you should have any questions, please give me a call at 804-200-6392.

Respectfully,

Neal A. Rogers, Jr., P.E. Senior Project Manager

Timmons Group, Inc.

Attachments

Cc Enc: Frank Irving

David Saunders

Adam Eller - VA DEQ

Application for Renewal and Modification

VPDES Permit VA0088978 Black Swamp Wastewater Treatment Facility

March 24, 2016

Prepared for:

Sussex Service Authority

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Prepared by:



Timmons Group

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	VPDES Permit Application Addendum	

FAX



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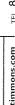
Re: Application for Renewal and Modification VPDES Permit 00088978, Black Swamp WWTF

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Appendix A
Form 1 – General

	T	Mar	k "X"		<u> </u>	Mari	< "X"
SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)	×		X	B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a		×	
	16	17	18	discharge to waters of the U.S.? (FORM 2B)	19	20	21
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	22	23	24	D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)	25	X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)		X		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore,	25	26	27
	28	29	30	underground sources of drinking water? (FORM 4)	31	32	33
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons?		×		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		\times	
(FORM 4)	34	35	36		37	38	39
Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect	**************************************	X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act		X	
or be located in an attainment area? (FORM 5)	40	41	42	and may affect or be located in an attainment area? (FORM 5)	43	44	45
III. NAME OF FACILITY				(FORM 3)			
C							
	EATM	ENT	FACIL	ITY THE ANDREW OF THE PROPERTY			
15 16 - 29 30 Page 10 10 10 10 10 10 10 10 10 10 10 10 10					69	ORANGE HAR	
IV. FACILITY CONTACT		0 1		The provers			
A. NAME & TITLE (lass	, first, e	& title)		B. PHONE (area code & no.)		· · · · · · · · · · · · · · · · · · ·	
Kearns, Michael P., Engineer	. ,			(804) 834-8936 ' '			
15 16	HEROTOPINOS (SE	none de mario de la companio del companio de la companio del companio de la companio del la companio de la comp		45 46 48 49 51 52- 5	5	W. 114 W. 104 W.	
V.FACILTY MAILING ADDRESS							
A. STREET OR P	.O. BO	X	1 1				
3 4385 BEEF STEAK RD ' ' ' '	1 1	1 1	1 1 [
			201	45			
15 16							
15 16 B. CITY OR TOWN		,		C. STATE D. ZIP CODE			
B. CITY OR TOWN	T						
B. CITY OR TOWN WAVERLY	1			C. STATE D. ZIP CODE VA 23890			
B. CITY OR TOWN C WAVERLY 15 16			<u> </u>	VA 23890			
B. CITY OR TOWN C WAVERLY 15 16	R SPE	CIFIC	IDENTIFIE	VA 23890 40 41 42 47 51			
B. CITY OR TOWN C WAVERLY 4 WAVERLY 15 16 VI. FACILITY LOCATION A. STREET, ROUTE NO. OR OTHE C 4385 BEEF STEAK RD	R SPE	CIFIC	IDENTIFIE	VA 23890 40 41 42 47 51			
B. CITY OR TOWN C WAVERLY 4 WAVERLY 15 16 VI. FACILITY LOCATION A. STREET, ROUTE NO. OR OTHE C 4385 BEEF STEAK RD 15 16			IDENTIFIE	VA 23890 40 41 42 47 51			
B. CITY OR TOWN C WAVERLY 4 WAVERLY 15 16 VI. FACILITY LOCATION A. STREET, ROUTE NO. OR OTHE C 4385 BEEF STEAK RD			IDENTIFIE	VA 23890 40 41 42 47 51 R 45			
B. CITY OR TOWN C WAVERLY 15 16 VI. FACILITY LOCATION A. STREET, ROUTE NO. OR OTHE C 4385 BEEF STEAK RD B. COUNTY			IDENTIFIE	R 45	DDE (ii	Cknow	,) {
B. CITY OR TOWN C WAVERLY 15 16 VI. FACILITY LOCATION A. STREET, ROUTE NO. OR OTHE C 4385 BEEF STEAK RD B. COUNTY SUSSEX			IDENTIFIE	VA 23890 40 41 42 47 51 R 45	DDE (i)	(known	7)

CONTINUED FROM THE FRONT						
VII. SIC CODES (4-digit, in order of priority) A. FIRST	- V - V - P - P - P - P - P - P - P - P		<u> </u>	B. SECONE		
c (specify) SEWERAGE SYSTEMS	*. V : _ * * * * * * * * * * * * * * * * * *	E 1 1 7	(specify)	B. SECONE	,	
15 16 - 19		15 16 - 19				
C. THIRD	······································	CITT	(specify)	D. FOURTH		
		7	(specify)			
VIII. OPERATOR INFORMATION		15 16 - 19				
A.	NAME	TTTTTT			B. Is the name I	
8 SUSSEX SERVICE AUTHORITY				, ,	☑ YES □ NO	
C. STATUS OF OPERATOR (Enter the approp.	rieta lattar into tha	annua har if "	Other " anni G.)		55 66	
F = FEDERAL	(st	ecify)	Siner, specify.		D. PHONE (area co	nae & no.)
S = STATE M = PUBLIC (other than federal or P = PRIVATE O = OTHER (specify)	state) M				A (804) 83	4-8930
	56	**************************************			15 6 - 18 19 -	21 22 - 26
E. STREET OR P.O. BOX						
4385 BEEF STEAK RD	, , , , .	, , , , ,	,			
F. CITY OR TOWN			55 C STATE LA	ZIP CODE IX	. INDIAN LAND	
	TTTT	1111		l ls	the facility located on	Indian lands?
B WAVERLY	-			57	IYES ☑I	NO
X. EXISTING ENVIRONMENTAL PERMITS			40 41 42 47	- 31		
A. NPDES (Discharges to Surface Water)	D. PSD (Air Em	issions from Pro	posed Sources)			
9 N VA0088978 9 P						
15 16 17 18 30 15 16	17 18			30		
B. UIC (Underground Injection of Fluids)			E. OTHER (.	specify) (specify)		W. S. M. A
9 U				(specify)		
15 16 17 18 30 15 16 C. RCRA (Hazardous Wastes)	17 18		E. OTHER (30 specify)		
C T I C T				(specify)		
9 R 9 16 17 18 9 15 16	17 18			30		
MAP				30		
Attach to this application a topographic map of the area extending location of each of its existing and proposed intake and discharge:	to at least one	mile beyond pr	operty boundaries.	The map must	show the outline of t	he facility, the
injects fluids underground. Include all springs, rivers, and other surfa-	ace water bodies i	n the map area	. See instructions for	r precise requir	ements.	n wen where it
XII. NATURE OF BUSINESS (provide a brief description)						
MUNICIPAL WASTEWATER TREAMTENT FACILITY						
XIII. CERTIFICATION (see instructions)						
I certify under penalty of law that I have personally examined and a inquiry of those persons immediately responsible for obtaining the i am aware that there are significant penalties for submitting false info	information contai	ined in the app	lication. I believe th	at the informati	attachments and that, on is true, accurate, a	based on my nd complete. I
A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	1 11			C. DATE SIGN	ED
FRANK H. IRVING, III EXECUTIVE DIRECTOR	6	1_11.	sere	- TA	1-1-1	1
	T A RIVID					11
	1 /01		0	<u> </u>	9/291	16
DMMENTS FOR OFFICIAL USE ONLY				<u></u>	3/291	16

Appendix B
Form 2A
Basic Application Information

Black Swamp Regional WWTP VA0088978

BASIC APPLICATION INFORMATION

PAI	RT A. BASIC APPI	LICATION INFORMATION FOR AL	LL APPLICANTS:					
All t	reatment works mus	t complete questions A.1 through A.8	of this Basic Application Information p	acket.				
A.1.	Facility Information	1.						
	Facility name	Black Swamp Regional WWTP						
	Mailing Address	4385 Beef Steak Rd, Waverly, Virg	ginia 23890					
	Contact person	Michael P. Kearns						
	Title	Engineer						
	Telephone number (804) 834-6903							
	Facility Address (not P.O. Box)	4385 Beef Steak Rd, Waverly, Virg	ginia 23890					
A.2.	Applicant Informati	on. If the applicant is different from the	above, provide the following:					
	Applicant name	Sussex Service Authority						
	Mailing Address	4385 Beef Steak Rd Waverly, Virginia 23890						
	Contact person	Frank H. Irving III						
	Title	Executive Director	Executive Director					
	Telephone number	(834) 839-6930						
	owner Indicate whether cor	owner or operator (or both) of the tre operator respondence regarding this permit should	eatment works? Id be directed to the facility or the applicant					
	facility	applicant						
A.3.	Existing Environme works (include state-	ental Permits. Provide the permit numb issued permits).	er of any existing environmental permits th	at have been issued to the treatment				
	NPDES VA00889	78	PSD					
	UIC		Other					
	RCRA		Other					
A.4.			unicipalities and areas served by the facility collection system (combined vs. separate)					
	Name	Population Served	Type of Collection System	Ownership				
	Route 460 Corrido	r ~ 2,900	<u>FM</u>	Public				
	Routes 620 626 ar	nd 625 ~400	FM	Public				
	VADOC Sussex 18	<u>~ 2,577</u>	FM	Public				
	Total pop	oulation served <u>~ 5,877</u>						

FAC	ILIT	Y NAME AND PERMIT NUMBER:					orm Approved 1	
Black	(Sv	wamp Regional WWTP VA0088978				0	MB Number 20	140-0086
A.5.	In	dian Country.			***************************************			
1	a.	Is the treatment works located in Indian Co	ountry?					
		Yes 🗸 No	,					
	b.	Does the treatment works discharge to a rethrough) Indian Country?	eceiving water that is either in	ı Indian Country	or that is up	stream from (a	and eventually	flows
		Yes No						
A.6.	av	bw. Indicate the design flow rate of the treate erage daily flow rate and maximum daily flow riod with the 12th month of "this year" occurr Design flow rate0.6, 0.99, 1.6 mgd	v rate for each of the last thre	e years. Each hs prior to this a	vear's data n	nust be based	dle). Also pro on a 12-montl	vide the h time
			Two Years Ago	Last Year		This Year		
	b.	Annual average daily flow rate	0.272	b	0.278		0.302	mgd
	c.	Maximum daily flow rate	0.754		0.498	***************************************	0.533	mgd
A.7.	cor	offication System. Indicate the type(s) of collection (by miles) of each. Separate sanitary sewer Combined storm and sanitary sewer	lection system(s) used by the	treatment plan	t. Check all	that apply. Als	o estimate the	
A.8.	Dis	scharges and Other Disposal Methods.						
	a.	Does the treatment works discharge effluer	nt to waters of the U.S.?		√	Yes		No
		If yes, list how many of each of the following	g types of discharge points th	ie treatment wo	rks uses:	·		
		i. Discharges of treated effluent	- ·			1		
		ii. Discharges of untreated or partially trea	ated effluent					
		iii. Combined sewer overflow points						
		iv. Constructed emergency overflows (prio	r to the headworks)			•		
		v. Other						
	b.	Does the treatment works discharge effluen impoundments that do not have outlets for our lf yes, provide the following for each surface Location:	discharge to waters of the U.	S.?		Yes	<u> </u>	No
		Annual average daily volume discharged to					mgd	
		Is discharge continuous or	intermittent?					
	C.	Does the treatment works land-apply treated	d wastewater?			Yes		No
		If yes, provide the following for each land ap	oplication site:					
		Location:	***************************************			4		
		Number of seres:						
		Annual average daily volume applied to site	:	N	/lgd			
		Is land application continuou	us or intermitte					

d. Does the treatment works discharge or transport treated or untreated wastewater to another treatment works?

Yes

Black Swamp Regional WWTP VA0088978

Form Approved 1/14/99 OMB Number 2040-0086

				7 1 .		
If the man and in law and						
If transport is by a par	ty other than the app	olicant, provide:				
Transporter name:	*****					
Mailing Address:			97-7			
Contact person:						
Title:						
Telephone number:						
		A CONTRACTOR OF THE CONTRACTOR				
For each treatment w	orks that receives this	s discharge, provide	the following:			
		, , , , , , , , , , , ,				
Name:						
Mailing Address:					***************************************	
Contact person:				***************************************	***************************************	
				····	·	
Title:						
Title: Telephone number:						
Telephone number:			orks that receives this discha			
Telephone number: If known, provide the I	NPDES permit numbe	er of the treatment w				mgd
Telephone number: If known, provide the I Provide the average d	NPDES permit numbe	er of the treatment w	orks that receives this discha o the receiving facility.	rge.		mgd
Telephone number: If known, provide the I Provide the average d Does the treatment wo	NPDES permit numbe	er of the treatment we treatment works into	orks that receives this discha o the receiving facility.	rge.	Yes	
Telephone number: If known, provide the I Provide the average d Does the treatment wo A.8.a through A.8.d ak	NPDES permit number aily flow rate from the orks discharge or disponence (e.g., underground	er of the treatment we treatment works into coose of its wastewate and percolation, well	orks that receives this discha o the receiving facility.	rge.	Yes _ ●	mgd No
Telephone number: If known, provide the I Provide the average d Does the treatment wo A.8.a through A.8.d at f yes, provide the follo	NPDES permit number aily flow rate from the orks discharge or dispove (e.g., undergroupwing for each dispose	er of the treatment we treatment works into cose of its wastewate and percolation, well all method:	orks that receives this discha o the receiving facility. er in a manner not included in njection)?	rge.	Yes _●	
Telephone number: If known, provide the I Provide the average d Does the treatment wo A.8.a through A.8.d ak	NPDES permit number aily flow rate from the orks discharge or dispove (e.g., undergroup for each dispose (including location ar	er of the treatment we treatment works into cose of its wastewate and percolation, well all method:	orks that receives this discha o the receiving facility. er in a manner not included in njection)?	rge.	Yes	
Telephone number: If known, provide the I Provide the average d Does the treatment wo A.8.a through A.8.d at f yes, provide the follo	NPDES permit number aily flow rate from the orks discharge or dispove (e.g., undergroup wing for each disposation ar	er of the treatment we treatment works into cose of its wastewate and percolation, well sal method: Indicate of site(s) if approximate and size of site(s) if approximate and size of site(s) if approximate and size of site(s).	orks that receives this discha o the receiving facility. er in a manner not included in njection)?	rge.	Yes <u></u>	

Black Swamp Regional WWTP VA0088978

 De	scription of Treatment.					
a.	What levels of treatment are provided? Check a Primary Advanced	ll that apply. Secondary Other. Describe:				
b.	Indicate the following removal rates (as applicab		0.60 / 0.99 /	1.6 (Flow	Tiers)	
	Design BOD ₅ removal <u>or</u> Design CBOD ₅ remova	ıl	95 / 95 / 95		%	
	Design SS removal		95 / 95 / 95		%	
	Design P removal		NA		%	
	Design N removal		NA		%	
	Other		***************************************		%	
C.	What type of disinfection is used for the effluent chlorine gas	from this outfall? If disinfe	ection varies by seas	on, please o	describe.	
	If disinfection is by chlorination, is dechlorination	used for this outfall?		_ Yes		No
d.	Does the treatment plant have post aeration?		<u> </u>	_ Yes		_ No
par discoll coll of 4 At a	uent Testing Information. All Applicants that ameters. Provide the indicated effluent testing charged. Do not include information on combected through analysis conducted using 40 C CFR Part 136 and other appropriate QA/QC a minimum, effluent testing data must be basefall number:	g required by the permit ined sewer overflows in FR Part 136 methods. I requirements for stand	ting authority <u>for e</u> n this section. All ir n addition, this dat ard methods for an	ach outfall nformation a must con alytes not a	through whi reported mu aply with QA addressed by	ch effluent is st be based on data /QC requirements / 40 CFR Part 136.

PARAMETER	MAXIMU	IM DAILY VALUE	AVERAGE DAILY VALUE			
	Value	Units	Value	Units	Number of Samples	
pH (Minimum)	6.9	s.u.				
pH (Maximum)	7.9	s.u.				
Flow Rate	0.754	MGD	0.266	MGD	1552	
Temperature (Winter)	17.1	deg-C	12.4	deg-C	361	
Temperature (Summer)	28.7	deg-C	25.9	deg-C	368	

POLLUTANT	POLLUTANT		LUTANT MAXIMUM DAILY AVERAGE DAILY DISCHA			CHARGE	ANALYTICAL METHOD	ML / MDL	
		Conc.	Units	Conc.	Units	Number of Samples			
CONVENTIONAL AND N	IONCONVI	ENTIONAL CO	OMPOUNDS.				1	<u> </u>	
BIOCHEMICAL OXYGEN	BOD-5	11	mg/L	2	mg/L	664	SM 5210B	2	
DEMAND (Report one)	CBOD-5								
		17 MPN/	100mL	6.9 MPN/	100mL	3	SM 9221C+E	1.8	
FECAL COLIFORM									

END OF PART A.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM **2A YOU MUST COMPLETE**

		Y NAME AND PERMIT NUMBER:	Form Approved 1/14/99 OMB Number 2040-0086
Biaci	(5)	vamp Regional WWTP VA0088978	
BA	SI	C APPLICATION INFORMATION	
PAR	TE	B. ADDITIONAL APPLICATION INFORMATION FOR APP	LICANTS WITH A DESIGN FLOW GREATER THAN OR
Alla	an lie	EQUAL TO 0.1 MGD (100,000 gallons per day).	Post Post All the second of th
~		cants with a design flow rate ≥ 0.1 mgd must answer questions B.1 thr	
В.1.	ln'	flow and Infiltration. Estimate the average number of gallons per da	y that flow into the treatment works from inflow and/or infiltration.
		0.0 gpd	
		efly explain any steps underway or planned to minimize inflow and inf	
		ollection system for Black Swamp is all forcemain. Periodically ainitain constant flow through Black Swamp.	accepts flows from Spring Branch only to
B.2.	Th	pographic Map. Attach to this application a topographic map of the a is map must show the outline of the facility and the following information entire area.)	rea extending at least one mile beyond facility property boundaries. on. (You may submit more than one map if one map does not show
	a.	The area surrounding the treatment plant, including all unit processe	s.
	b.	The major pipes or other structures through which wastewater enters treated wastewater is discharged from the treatment plant. Include of	the treatment works and the pipes or other structures through which outfalls from bypass piping, if applicable.
	C.	Each well where wastewater from the treatment plant is injected und	erground.
	d.	Wells, springs, other surface water bodies, and drinking water wells works, and 2) listed in public record or otherwise known to the applic	that are: 1) within 1/4 mile of the property boundaries of the treatment ant.
	e.	Any areas where the sewage sludge produced by the treatment work	s is stored, treated, or disposed.
	f.	If the treatment works receives waste that is classified as hazardous truck, rail, or special pipe, show on the map where that hazardous widisposed.	under the Resource Conservation and Recovery Act (RCRA) by aste enters the treatment works and where it is treated, stored, and/or
	bac chlc	cess Flow Diagram or Schematic. Provide a diagram showing the packup power sources or redundancy in the system. Also provide a wate rination and dechlorination). The water balance must show daily aver arates between treatment units. Include a brief narrative description o	r balance showing all treatment units, including disinfection (e.g, age flow rates at influent and discharge points and approximate daily
B.4.	Оре	eration/Maintenance Performed by Contractor(s).	
	Are	any operational or maintenance aspects (related to wastewater treatmerator?YesNo	nent and effluent quality) of the treatment works the responsibility of a
		es, list the name, address, telephone number, and status of each contres if necessary).	actor and describe the contractor's responsibilities (attach additional
	Nan	ne:	
	Mail	ing Address:	
	Tele		
	Res	and the state of t	
	unco	eduled Improvements and Schedules of Implementation. Provide ompleted plans for improvements that will affect the wastewater treatment works has several different implementation schedules or is plan	ent, effluent quality, or design capacity of the treatment works. If the

List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.

001 (Planned Upgrade to Provide Improved Reliability and Additional Capacity)

B.5 for each. (If none, go to question B.6.)

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER:

Black Swamp Regional WWTP VA0088978

С	If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable).
	Planned Facility Upgrade 0.6 to 0.99 to 1.6 MGD MMADF (Tiered capacity development)
d.	Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as

	Schedule	Actual Completion	(Schedule to be determined pending
Implementation Stage	MM / DD / YYYY	MM / DD / YYYY	funding.)
- Begin construction	//		
- End construction			
- Begin discharge			
- Attain operational level	//		
Have appropriate permits/clearance		-1/64-4	n obtained? Yes V No

B.6. EFFLUENT TESTING DATA (GREATER THAN O.1 MGD ONLY).

Describe briefly: None required

Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall Number: 001

e.

POLLUTANT	1	UM DAILY HARGE	AVERA	GE DAILY DISC	CHARGE		
	Conc.	Units	Conc.	Units	Number of Samples	ANALYTICAL METHOD	ML/MDL
CONVENTIONAL AND NO	VCONVENTION	AL COMPOUND	S.				<u> </u>
AMMONIA (as N)	0.7	mg/L	0.1	mg/L	52	SM 4500NH3D	0.1
CHLORINE (TOTAL RESIDUAL, TRC)	О	mg/L	0	mg/L	1552	4500-CI G 2000	<1
DISSOLVED OXYGEN	15.2	mg/L	9.7	mg/L	1552	SM 4500-O G-20	<1
TOTAL KJELDAHL NITROGEN (TKN)	5	mg/L	1	mg/L	664	351.2	0.5
NITRATE PLUS NITRITE NITROGEN	12.3	mg/L	11.7	mg/L	2	353.2	0.05
OIL and GREASE	< 5	mg/L	< 5	mg/L	2	1664A	5
PHOSPHORUS (Total)	3.13	mg/L	3.09	mg/L	2	365.1	0.1
TOTAL DISSOLVED SOLIDS (TDS)	422	mg/L	371	mg/L	2	SM 2540C	10
OTHER							

END OF PART B. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND F	PERMIT NUMBER:	77.00764.0044.004	Form Approved 1/14/99
Black Swamp Regiona	al WWTP VA0088978		OMB Number 2040-0086
BASIC APPLIC	ATION INFORMAT	ION	
ART C. CERTIFICA	TION		
applicants must completed have completed and are	e all applicable sections of Fo	orm 2A, as explained in the Apertification statement, application	rmine who is an officer for the purposes of this certification. All oplication Overview. Indicate below which parts of Form 2A you not sonfirm that they have reviewed Form 2A and have completed
Indicate which parts of	Form 2A you have comple	ted and are submitting:	
Basic Applic	cation Information packet	Supplemental Application I	nformation packet:
		Part D (Expanded	Effluent Testing Data)
		Part E (Toxicity Te	esting: Biomonitoring Data)
		Part F (Industrial L	Jser Discharges and RCRA/CERCLA Wastes)
		Part G (Combined	Sewer Systems)
ALL APPLICANTS MUS	ST COMPLETE THE FOLLO	WING CERTIFICATION.	
I certify under penalty of designed to assure that of who manage the system	law that this document and a qualified personnel properly g or those persons directly res d complete. I am aware that	Il attachments were prepared ather and evaluate the inform ponsible for gathering the info	under my direction or supervision in accordance with a system ation submitted. Based on my inquiry of the person or persons rmation, the information is, to the best of my knowledge and for submitting false information, including the possibility of fine
Name and official title	Frank H. Irving, III, Exe	cutive Director	
Signature	Frenk H. In	rue the	
Telephone number	(804) 834-8930	<u> </u>	
ate signed	March 29	2016	
Upon request of the pern works or identify appropr	nitting authority, you must sul late permitting requirements.	omit any other information nec	essary to assess wastewater treatment practices at the treatment

SEND COMPLETED FORMS TO:

Black Swamp Regional WWTP VA0088978

SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

POLLUTANT	I	JAXIMU DISCI	JM DAIL' HARGE	Y	A۱	/ERAGE	DAILY	DISCHA	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
METALS (TOTAL RECOVERABLE), CYANIDE,	PHENO	LS, AND	HARDNE	SS.						***************************************
ANTIMONY	9	ug/L							1	200.7	5
ARSENIC	< 5	ug/L							1	200.7	5
BERYLLIUM	< 0.5	ug/L							1	200.7	0.5
CADMIUM	< 0.5	ug/L							1	200.7	0.5
CHROMIUM	< 1	ug/L							1	200.7	1
COPPER	6	ug/L							1	200.7	0.2
LEAD	< 5	ug/L							1	200.7	5
MERCURY	< 0.2	ug/L							1	245.1	0.2
NICKEL	< 5	ug/L							1	200.7	5
SELENIUM	< 5	ug/L							1	200.7	5
SILVER	< 1	ug/L							1	200.7	1
THALLIUM	< 5	ug/L							1	200.7	5
ZINC	70	ug/L							1	200.7	5
CYANIDE	< 5	ug/L							1	335.4	5
TOTAL PHENOLIC COMPOUNDS											
HARDNESS (AS CaCO ₃)		mg/L							3	200.7	
se this space (or a separate sheet)	to provide in	formation	on other	metals re	quested b	y the peri	mit writer.	1			

Black Swamp Regional WWTP VA0088978

Outfall number:	_ (Comp	lete onc	e for eac	ch outfall	dischar	ging efflu	ent to w	aters of	the United S	States.)	
POLLUTANT	N	MIXAN	JM DAIL'	Y	A۱	/ERAGE	DAILY	DISCHA	ARGE		
	Conc.	Units	HARGE Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
VOLATILE ORGANIC COMPOUNDS.			*			*					
ACROLEIN	< 50	ug/L							1	624	50
ACRYLONITRILE	< 50	ug/L							1	624	50
BENZENE	< 5	ug/L							1	624	5
BROMOFORM	< 5	ug/L							1	624	5
CARBON TETRACHLORIDE	< 5	ug/L							1	624	5
CLOROBENZENE	< 5	ug/L							1	624	5
CHLORODIBROMO-METHANE	< 5	ug/L							1	624	5
CHLOROETHANE	< 5	ug/L							1	624	5
2-CHLORO-ETHYLVINYL ETHER	< 10	ug/L							1	624	10
CHLOROFORM	19	ug/L							1	624	5
CHLOROBROMO-METHANE	< 5	ug/L							1	624	5
1,1-DICHLOROETHANE	< 5	ug/L							. 1	624	5
1,2-DICHLOROETHANE	< 5	ug/L							1	624	5
TRANS-1,2-DICHLORO-ETHYLENE	< 5	ug/L							1	624	5
1,1-DICHLOROETHYLENE	< 5	ug/L							1	624	5
1,2-DICHLOROPROPANE	< 5	ug/L							1	624	5
1,3-DICHLORO-PROPYLENE	< 5	ug/L							1	624	5
ETHYLBENZENE	< 5	ug/L							1	624	5
METHYL BROMIDE	< 5	ug/L							1	624	5
METHYL CHLORIDE	< 5	ug/L							1	624	5
METHYLENE CHLORIDE	< 5	ug/L							1	624	5
1,1,2,2-TETRACHLORO-ETHANE	< 5	ug/L							1	624	5
ETRACHLORO-ETHYLENE	< 5	ug/L							1	624	5
FOLUENE	< 5	ug/L		n					1	624	5

Black Swamp Regional WWTP VA0088978

Outfall number: 001 POLLUTANT			JM DAIL			_	ent to w		the United S	otates.)	1
POLLUTANT		DISCH	HARGE								
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of	ANALYTICAL METHOD	ML/ MDL
1,1,1-TRICHLOROETHANE	< 5	ug/L							Samples 1	624	5
1,1,2-TRICHLOROETHANE	< 5	ug/L							1	624	5
TRICHLORETHYLENE											
	< 5	ug/L							1	624	5
VINYL CHLORIDE Use this space (or a separate sheet)	< 5	ug/L nformation	n on other	volatile o	rganic cor	mnounds	requested	hv the p	1 permit writer.	624	5
	7				196		10422				
ACID-EXTRACTABLE COMPOUND	DS								<u> </u>		
P-CHLORO-M-CRESOL	< 5	ug/L							1	625	5
2-CHLOROPHENOL	< 5	ug/L							1	625	5
2,4-DICHLOROPHENOL	< 5	ug/L							1	625	5
2,4-DIMETHYLPHENOL	< 5	ug/L							1	625	5
1,6-DINITRO-O-CRESOL	< 5	ug/L							1	625	5
2,4-DINITROPHENOL	< 20	ug/L							1	625	20
2-NITROPHENOL	< 5	ug/L							1	625	5
4-NITROPHENOL	< 5	ug/L							1	625	5
PENTACHLOROPHENOL	< 10	ug/L							1	625	10
PHENOL	< 5	ug/L							1	625	5
2,4,6-TRICHLOROPHENOL	< 5	ug/L							1	625	5
Use this space (or a separate sheet)	to provide in	formation	on other	acid-extra	actable co	<u> </u>	requeste	d by the p	permit writer.		
BASE-NEUTRAL COMPOUNDS.											
ACENAPHTHENE	< 5	ug/L							1	625	5
ACENAPHTHYLENE	< 5	ug/L							1	625	5
ANTHRACENE	< 5	ug/L							1	625	5
BENZIDINE	< 5	ug/L							1	625	5
BENZO(A)ANTHRACENE	< 5	ug/L							1	625	5
BENZO(A)PYRENE	< 5	ug/L							1	625	5

Black Swamp Regional WWTP VA0088978

Outfall number: 001									the United S	States.)	
POLLUTANT	1		JM DAIL HARGE	Y	A	VERAGE	= DAILY	DISCH	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
3,4 BENZO-FLUORANTHENE	< 5	ug/L		-					1	625	5
BENZO(GHI)PERYLENE	< 5	ug/L							1	625	5
BENZO(K)FLUORANTHENE	< 5	ug/L							1	625	5
BIS (2-CHLOROETHOXY) METHANE	< 5	ug/L							1	625	5
BIS (2-CHLOROETHYL)-ETHER	< 5	ug/L							1	625	5
BIS (2-CHLOROISO-PROPYL) ETHER	< 5	ug/L							1	625	5
BIS (2-ETHYLHEXYL) PHTHALATE	< 5	ug/L							1	625	5
4-BROMOPHENYL PHENYL ETHER	< 5	ug/L							1	625	5
BUTYL BENZYL PHTHALATE	< 5	ug/L							1	625	5
2-CHLORONAPHTHALENE	< 5	ug/L					, , , , , , , , , , , , , , , , , , ,		1	625	5
CHLORPHENYL PHENYL ETHER	< 5	ug/L							1	625	5
CHRYSENE	< 5	ug/L							1	625	5
DI-N-BUTYL PHTHALATE	< 5	ug/L							1	625	5
DI-N-OCTYL PHTHALATE	< 5	ug/L							1	625	5
DIBENZO(A,H) ANTHRACENE	< 5	ug/L							1	625	5
1,2-DICHLOROBENZENE	< 5	ug/L							1	625	5
1,3-DICHLOROBENZENE	< 5	ug/L							1	625	5
1,4-DICHLOROBENZENE	< 5	ug/L			-				1	625	5
3,3-DICHLOROBENZIDINE	< 5	ug/L							1	625	5
DIETHYL PHTHALATE	< 5	ug/L							1	625	5
DIMETHYL PHTHALATE	< 5	ug/L							1	625	5
2,4-DINITROTOLUENE	< 5	ug/L							1	625	5
,6-DINITROTOLUENE	< 5	ug/L							1	625	5
,2-DIPHENYLHYDRAZINE	< 5	ug/L							1	625	5

Black Swamp Regional WWTP VA0088978

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.) POLLUTANT MAXIMUM DAILY AVERAGE DAILY DISCHARGE DISCHARGE Conc. Units | Mass Units Conc. Units Number Mass Units **ANALYTICAL** ML/ MDL of **METHOD** Samples **FLUORANTHENE** < 5 ug/L 625 5 1 **FLUORENE** < 5 ug/L 625 1 5 **HEXACHLOROBENZENE** < 5 ug/L 1 625 5 HEXACHLOROBUTADIENE < 5 ug/L 1 625 5 HEXACHLOROCYCLO-< 5 ug/L 1 625 5 PENTADIENE **HEXACHLOROETHANE** ug/L < 5 1 625 5 INDENO(1,2,3-CD)PYRENE < 5 ug/L 1 625 5 ISOPHORONE < 5 ug/L 1 625 5 NAPHTHALENE < 5 ug/L 1 625 5 NITROBENZENE < 5 ug/L 625 1 5 N-NITROSODI-N-PROPYLAMINE < 5 ug/L 625 5 1 N-NITROSODI- METHYLAMINE < 5 ug/L 625 5 1 N-NITROSODI-PHENYLAMINE < 5 ug/L 1 625 5 PHENANTHRENE < 5 ug/L 5 1 625 **PYRENE** < 5 ug/L 625 5 1 1,2,4-TRICHLOROBENZENE < 5 ug/L 625 5 Use this space (or a separate sheet) to provide information on other base-neutral compounds requested by the permit writer.

END OF PART D.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

Use this space (or a separate sheet) to provide information on other pollutants (e.g., pesticides) requested by the permit writer.

Form Approved 1/14/99 **FACILITY NAME AND PERMIT NUMBER:** OMB Number 2040-0086 Black Swamp Regional WWTP VA0088978

SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do

analysis conducted using 40 C and other appropriate QA/QC In addition, submit the results of test conducted during the past of a toxicity reduction evaluation. If you have already submitted requested in question E.4 for p	CFR Part 136 methods. In addition, to requirements for standard methods for any other whole effluent toxicity tender and one-half years revealed town, if one was conducted, any of the information requested in Foreviously submitted information. If Equavailable that contain all of the information all of the information and contain all of the information.	n. All information reported must be bath data must comply with QA/QC required analytes not addressed by 40 CFR sts from the past four and one-half yeariety, provide any information on the content of the past four and one-half yeariety, provide any information on the content of the past formation requested below, they may be dication Overview for directions on which	uirements of 40 CFR Part 136 Part 136. ars. If a whole effluent toxicity ause of the toxicity or any results eather, provide the information are reasons for using alternate a submitted in place of Part E.
E.1. Required Tests. Current flows flow reach 1.0	are less than 1.0 MGD. Toxic	ity testing deferred until treatm	ent capacity or
Indicate the number of whole effluen		four and one-half years.	
chronicacute			
E.2. Individual Test Data. Complete the		ent toxicity test conducted in the last for if more than three tests are being repo	
colamii por tost (whore each openic	Test number:	Test number:	Test number:
a. Test information.			
est species & test method number			
Age at initiation of test			
Outfall number			
Dates sample collected			
Date test started			
Duration			
b. Give toxicity test methods followe	ed.		
Manual title			
Edition number and year of publication			
Page number(s)			
c. Give the sample collection metho	od(s) used. For multiple grab sample	es, indicate the number of grab sample	s used.
24-Hour composite			
Grab			
d. Indicate where the sample was to	aken in relation to disinfection. (Chec	ck all that apply for each)	
Refore disinfection			
After disinfection			
After dechlorination			

Black Swamp Regional WWTP VA0088978

Form Approved 1/14/99 OMB Number 2040-0086

000	Test number:	Test number:	Test number:
e. Describe the point in the treatment	nt process at which the sample was	collected.	
Sample was collected:			
f. For each test, include whether the	e test was intended to assess chronic	c toxicity, acute toxicity, or both.	
Chronic toxicity			
Acute toxicity			
g. Provide the type of test performe	d.		
Static			
Static-renewal			
Flow-through			
h. Source of dilution water. If labora	atory water, specify type; if receiving	water, specify source.	
Laboratory water			
Receiving water			
i. Type of dilution water. It salt wate	er, specify "natural" or type of artificia	ll sea salts or brine used.	
Fresh water			
Salt water			
j. Give the percentage effluent used	for all concentrations in the test seri	es.	
			*
k. Parameters measured during the	test. (State whether parameter mee	ts test method specifications)	
рН			
Salinity			
Temperature			
Ammonia			
Dissolved oxygen			
I. Test Results.			
Acute:			
Percent survival in 100% effluent	%	%	%
LC₅o			
95% C.I.	%	%	%
Control percent survival	%	%	%
Other (describe)			

Form Approved 1/14/99 **FACILITY NAME AND PERMIT NUMBER:** OMB Number 2040-0086 Black Swamp Regional WWTP VA0088978 Chronic: % NOEC % % % % % IC_{25} % % % Control percent survival Other (describe) m. Quality Control/Quality Assurance. Is reference toxicant data available? Was reference toxicant test within acceptable bounds? What date was reference toxicant test run (MM/DD/YYYY)? Other (describe) E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation? __Yes___No If yes, describe: E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results. Date submitted: (MM/DD/YYYY) Summary of results: (see instructions) END OF PART E.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.

Black Swamp Regional WWTP VA0088978

Form Approved 1/14/99 OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

All ti	RT F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES reatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must plete Part F.
personal con-	NERAL INFORMATION:
=.1.	Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?
	Yes_ No
F.2.	Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.
	a. Number of non-categorical SIUs. 0
	b. Number of CIUs.
SIG	NIFICANT INDUSTRIAL USER INFORMATION:
Supp	oly the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 provide the information requested for each SIU.
3.	Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary. Name:
	Mailing Address:
.4.	Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
.5.	Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
	Principal product(s):
	Raw material(s):
.6.	Flow Rate.
	a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
	gpd (continuous orintermittent)
	b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
	gpd (continuous orintermittent)
.7.	Pretreatment Standards. Indicate whether the SIU is subject to the following:
	a. Local limitsYesNo
	b. Categorical pretreatment standardsYesNo
	If subject to categorical pretreatment standards, which category and subcategory?

FACILITY NAME AND PERMIT NUMBER: Black Swamp Regional WWTP VA0088978 Form Approved 1/14/99 OMB Number 2040-0086

	YesNo	If yes, describe	e each episode.		***************************************
RCR	A HAZARDOUS WAS	STE RECEIVED B	Y TRUCK, RAIL, OR DEDIC	CATED PIPELINE:	
9.	RCRA Waste. Does the pipe?YesN	e treatment works red No (go to F.12.)	ceive or has it in the past three y	rears received RCRA hazardous waste l	by truck, rail, or dedicated
F.10.	Waste Transport. Met	hod by which RCRA	waste is received (check all tha	t apply):	
	Truck	Rail	Dedicated Pipe		
.11.	Waste Description. Gi	ve EPA hazardous v	vaste number and amount (volu	me or mass, specify units)	
	EPA Hazardous Waste I		Amount	<u>Units</u>	
			-	White below the form of the second of the se	
			****	42 P. Jack 11 St. Phys. 1 (1994)	a kang Majagalang da Kagalagi.
			RCRA REMEDIATION/CORI MEDIAL ACTIVITY WASTE		
.12.	Remediation Waste. D	oes the treatment w	orks currently (or has it been no	tified that it will) receive waste from rem	edial activities?
	Yes (complete F.1	3 through F.15.)	No		
	Provide a list of sites an	d the requested info	rmation (F.13 - F.15.) for each o	urrent and future site.	
.13.	Waste Origin. Describe in the next five years).	e the site and type of	f facility at which the CERCLA/R	CRA/or other remedial waste originates	(or is expected to original
	in the next live years).				
.14.	Pollutants. List the haz known. (Attach additional			ed to be received). Include data on volu	ime and concentration, if
.14.				ed to be received). Include data on volu	ime and concentration, if
.14.				ed to be received). Include data on volu	ime and concentration, if
	known. (Attach additiona			ed to be received). Include data on volu	ime and concentration, if
.15.	Waste Treatment.	al sheets if necessar	у).		ime and concentration, if
.15.	Waste Treatment.	al sheets if necessar			ime and concentration, if
.15.	Waste Treatment. a. Is this waste treatedYesNo	al sheets if necessar	у).	vorks?	ime and concentration, if
.15.	Waste Treatment. a. Is this waste treatedYesNo	al sheets if necessar	y). prior to entering the treatment v	vorks?	ime and concentration, i
.15.	Waste Treatment. a. Is this waste treatedYesNo	al sheets if necessar	y). prior to entering the treatment v	vorks?	ime and concentration, i
.15.	Waste Treatment. a. Is this waste treated YesNo If yes, describe the to	al sheets if necessar (or will it be treated) reatment (provide in	y). prior to entering the treatment v	vorks?	ime and concentration, i

END OF PART F.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER:

Black Swamp Regional WWTP VA0088978

SUPPLEMENTAL APPLICATION INFORMATION

PART G. COMBINED SEWER SYSTEMS

If the treatment works has a combined sewer system, complete Part G.

- G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information)
 - a. All CSO discharge points.
 - Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters).
 - c. Waters that support threatened and endangered species potentially affected by CSOs.
- G.2. System Diagram. Provide a diagram, either in the map provided in G.1. or on a separate drawing, of the combined sewer collection system that includes the following information:
 - a. Locations of major sewer trunk lines, both combined and separate sanitary.
 - b. Locations of points where separate sanitary sewers feed into the combined sewer system.
 - c. Locations of in-line and off-line storage structures.
 - d. Locations of flow-regulating devices.
 - e. Locations of pump stations.

CSO OUTFALLS:

				for eac		

CUII	hier	e questions G.5 tillougi	n G.o once for each CSO discharge point.		
G.3.	Des	cription of Outfall.			
	a.	Outfall number			
	b.	Location	(City or town, if applicable)		(Zip Code)
			(County)		(State)
			(Latitude)		(Longitude)
	C.	Distance from shore (if a	applicable)	ft.	
	d.	Depth below surface (if	applicable)	ft.	
	e.	Which of the following w	vere monitored during the last year for this Co	SO?	
		Rainfall	CSO pollutant concentrations	CSO frequency	y
	f.	How many storm events	were monitored during the last year?	***************************************	
G.4.	csc	Events.			
	a.	Give the number of CSC	D events in the last year. _ actual or approx.)		
	b.	Give the average duration			

_actual or _

approx.)

hours (__

FACILITY NAME AND PERMIT NUMBER:
Black Swamp Regional WWTP VA0088978

C. Give the average volume per CSO event.

______million gallons (_____actual or _____approx.)

d. Give the minimum rainfall that caused a CSO event in the last year.

______inches of rainfall

G.5. Description of Receiving Waters.

a. Name of receiving water:

b. Name of watershed/river/stream system:

United States Soil Conservation Service 14-digit watershed code (if known):

C. Name of State Management/River Basin:

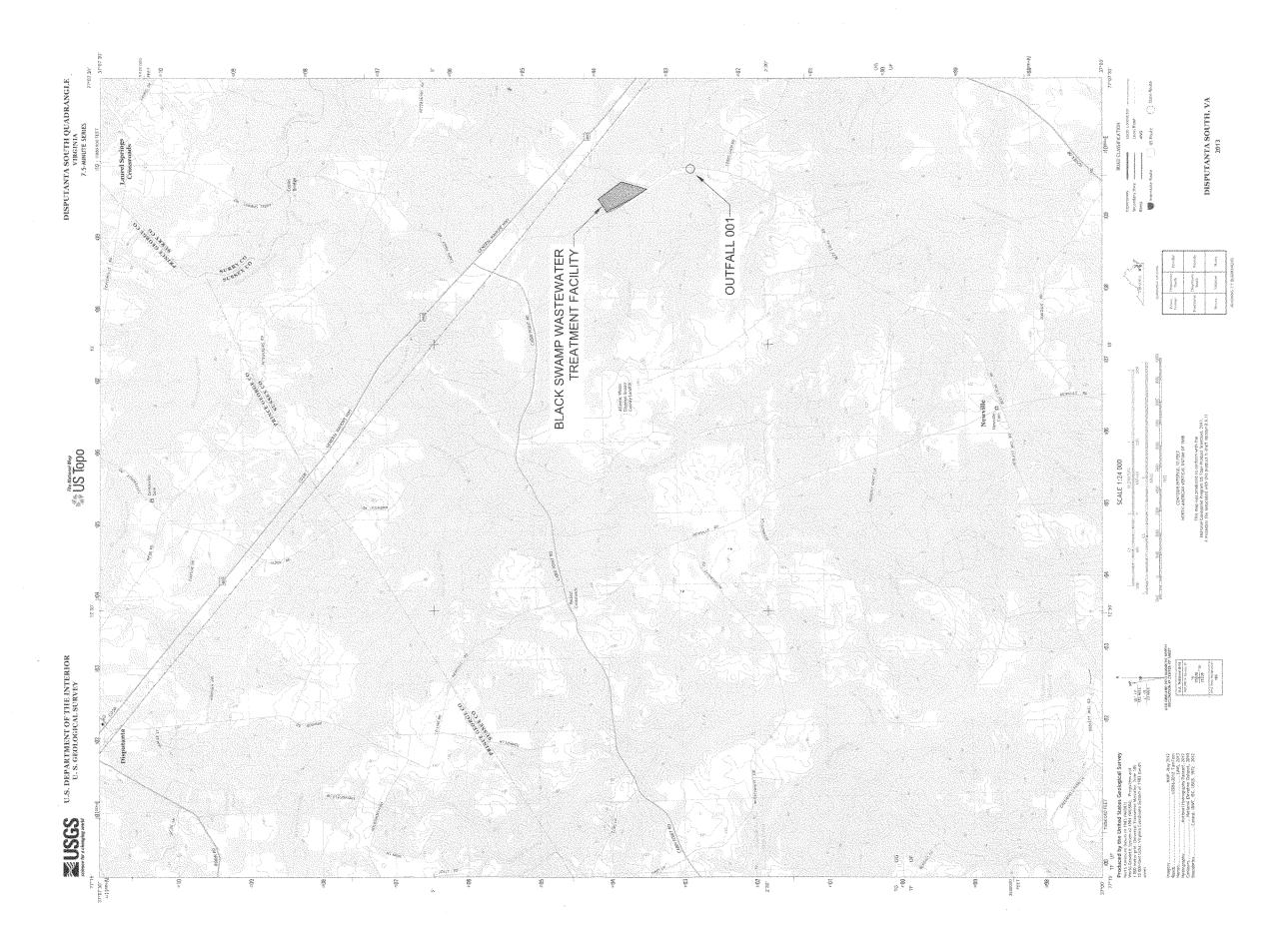
United States Geological Survey 8-digit hydrologic cataloging unit code (if known):

G.6. CSO Operations.

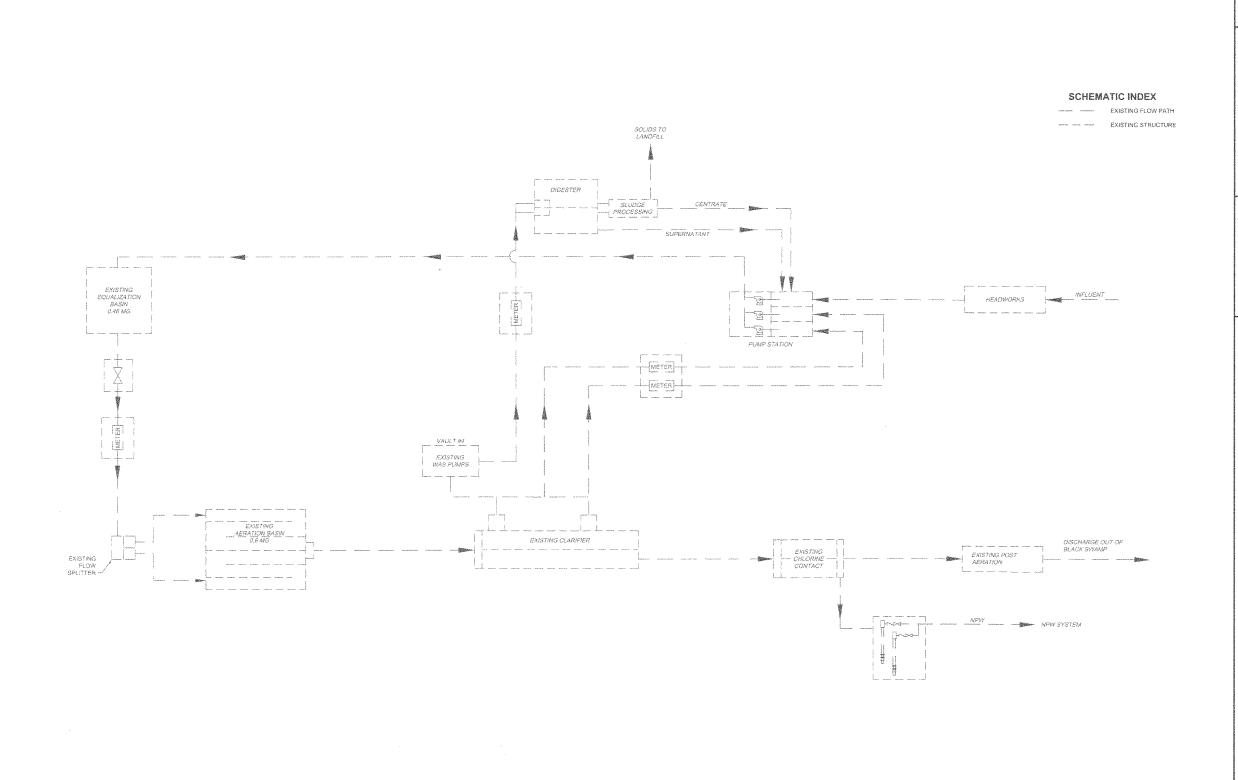
END OF PART G.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE.

Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water

quality standard).



AS REQUIRED PER ITEM XI OF EPA FORM 3510-1 SUSSEX SERVICE AUTHORITY FEBRUARY 26, 2016



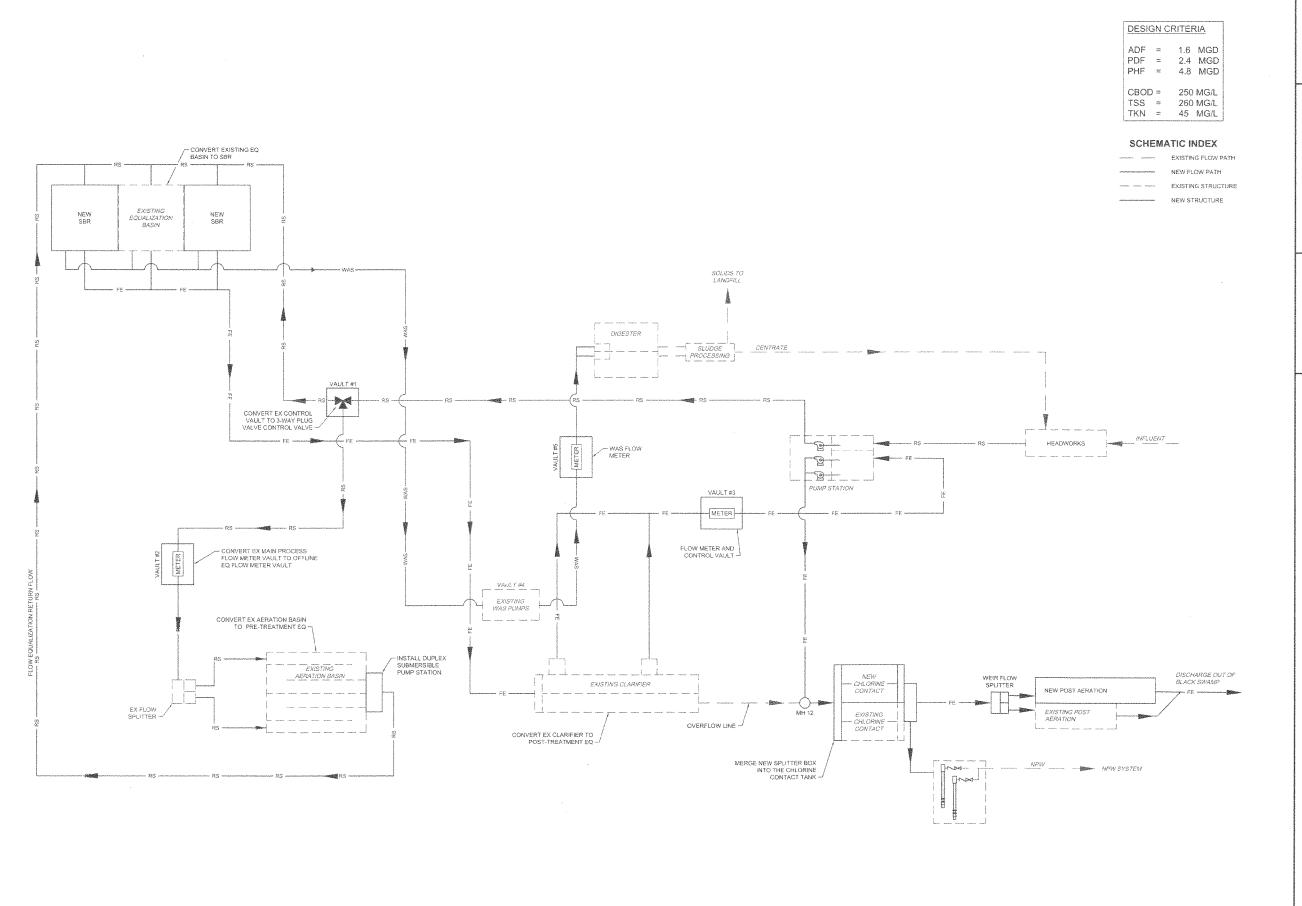
.

DESIGNED BY N. ROGERS

. SAUNDERS SCALE AS SHOWN

BLACK SWAMP WWTP EXPANSION $\geq \sum_{i=1}^{n}$

> јов но. 37334 SHEET NO. PFD-1



N. ROGERS . SAUNDERS SCALE

AS SHOWN

*

BLACK SWAMP WWTP EXPANSION

 \sum

37334 SHEET NO. PFD-2

Appendix C Expanded Effluent Testing Data Lab Sheets

REPORT OF ANALYSIS

CLIENT: Sussex Service Authority

ATTN: Bob Magette

DDRESS: 4385 Beef Steak Road

Waverly, Va 23890

PHONE:

(804) 691-4582

FAX:

rmagette@ssa-va.org

Special Notes: Black Swamp SAMPLE COLLECTED BY: CLIENT

GRAB COLLECTION:

Date: 2/1/2016

Time: 1028

COMPOSITE COLLECTION:

Start Date:

Time:

End Date:

Time:

PICK UP BY: REED - DBB

SAMPLE RECEIPT:

Date: 2/1/2016

Time: 1420

NUMBER OF CONTAINERS: 9

SAMPLE CONDITION: ✓ Good ☐ Other (See C-O-C)

REPORT NO: 16-01434 15:06

SAMPLE ID: Outfall 001 SAMPLE NO: 16-01434

***		Method	JRA					
	Parameter	Number	QL	Result	Unit	Analyst	Date	Time
epas,	Dioxin(2,3,7,8 TCDD)	1613	10	<10	pg/L	PAC	02/19/16	1408
	Total Antimony	200.7	0.005	0.009	mg/L	PEJ	02/09/16	1656
	Total Arsenic	200.7	0.005	< 0.005	mg/L	PEJ	02/09/16	1656
	Total Beryllium	200.7	0.0005	< 0.0005	mg/L	PEJ	02/09/16	1656
	Total Cadmium	200.7	0.0005	< 0.0005	mg/L	PEJ	02/09/16	1656
	Total Chromium	200.7	0.001	< 0.001	mg/L	PEJ	02/09/16	1656
	Total Copper	200.7	0.002	0.006	mg/L	PEJ	02/09/16	1656
	Total Lead	200.7	0.005	< 0.005	mg/L	PEJ	02/09/16	1656
	Total Mercury	245.1	0.0002	< 0.0002	mg/L	TLG	02/03/16	1114
	Total Nickel	200.7	0.005	< 0.005	mg/L	PEJ	02/09/16	1656
	Total Selenium	200.7	0.005	< 0.005	mg/L	PEJ	02/09/16	1656
e	Total Silver	200.7	0.001	< 0.001	mg/L	PEJ	02/09/16	1656
	Total Thallium	200.7	0.005	< 0.005	mg/L	PEJ	02/10/16	1246
	Total Zinc	200.7	0.005	0.070	mg/L	PEJ	02/09/16	1656
	Cyanide	335.4	0.005	< 0.005	mg/L	ARC	02/05/16	0957
S	Semi-Volatiles							
	Benzo[a]Pyrene	625	5	< 5	ug/L	CLH	02/09/16	0048
	Phenol	625	5	< 5	ug/L	CLH	02/09/16	0048
	2,4-Dinitrophenol	625	20	< 20	ug/L	CLH	02/09/16	0048
	2,4,6-Trichlorophenol	625	5	< 5	ug/L	CLH	02/09/16	0048
	4-Chloro 3-Methylphenol	625	5	< 5	ug/L	CLH	02/09/16	0048
	2,4-Dichlorophenol	625	5	< 5	ug/L	CLH	02/09/16	0048
	2,4-Dimethylphenol	625	5	< 5	ug/L	CLH	02/09/16	0048
	2-Nitrophenol	625	5	< 5	ug/L	CLH	02/09/16	0048
	4,6 Dinitro-o-cresol	625	5	< 5	ug/L	CLH	02/09/16	0048
	4-Nitrophenol	625	5	< 5	ug/L	CLH	02/09/16	0048
	2-Chlorophenol	625	5	< 5	ug/L	CLH	02/09/16	0048
	Benzo[g,h,i]Perylene	625	5	< 5	ug/L	CLH	02/09/16	0048
	Indeno[1,2,3-c,d]Pyrene	625	5	< 5	ug/L	CLH	02/09/16	0048
	Heptachlor	625	5	< 5	ug/L	CLH	02/09/16	0048

James R. Reed & Associates

770 Pilot House Drive, Newport News, VA 23606

(757) 873-4703 • Fax: (757) 873-1498

VELAP# 460013

EPA# VA00015



REPORT OF ANALYSIS

SAMPLE ID: Outfall 001 SAMPLE NO: 16-01434

	Method	JRA					
Parameter	Number	QL	Result	Unit	Analyst	Date	Time
Semi-Volatiles	Adventional committees and analysis and he desired residents and allowed by the			egy consequence were lawle as the last law of			
Benzo[k]Fluoranthene	625	5	< 5	ug/L	CLH	02/09/16	0048
Benzo[b]Fluoranthene	625	5	< 5	ug/L	CLH	02/09/16	0048
Di-n-Octyl phthalate	625	5	< 5	ug/L	CLH	02/09/16	0048
Bis(2-ethylhexyl) phthalate	625	5	< 5	ug/L	CLH	02/09/16	0048
3,3-Dichlorobenzidine	625	5	< 5	ug/L	CLH	02/09/16	0048
Chrysene	625	5	< 5	ug/L	CLH	02/09/16	0048
Benzo[a]Anthracene	625	5	< 5	ug/L	CLH	02/09/16	0048
Butyl benzyl phthalate	625	5	< 5	ug/L	CLH	02/09/16	0048
Benzidine	625	5	< 5	ug/L	CLH	02/09/16 02/09/16	0048
Dibenz[a,h]Anthracene	625	5	< 5	ug/L	CLH	02/09/16	0048
p,p-DDT	625	5	< 5	ug/L	CLH	02/09/16	0048
Hexachlorocyclopentadiene	625	5	< 5 CC	ug/L	CLH	02/09/16	0048
Pyrene	625	5	< 5	ug/L	CLH	02/09/16	0048
PCB 1260	625	5	< 5	ug/L	CLH	02/09/16	0048
PCB 1254	625	5	< 5	ug/L	CLH	02/09/16	0048
PCB 1248	625	5	< 5	ug/L	CLH	02/09/16	0048
PCB 1232	625	5	< 5	ug/L	CLH	02/09/16	0048
PCB 1221	625	5	< 5	ug/L	CLH	02/09/16	0048
PCB 1016/1242	625	5	< 5	ug/L	CLH	02/09/16	0048
Toxaphene	625	20	< 20	ug/L	CLH	02/09/16	0048
Chlordane	625	5	< 5	ug/L	CLH	02/09/16	0048
beta-BHC	625	5	< 5	ug/L	CLH	02/09/16	0048
Endrin aldehyde	625	5	< 5	ug/L	CLH	02/09/16	0048
Pentachlorophenol	625	10	< 10	ug/L	CLH	02/09/16	0048
beta Endosulfan	625	5	< 5	ug/L	CLH	02/09/16	0048
p,p-DDD	625	5	< 5	ug/L	CLH	02/09/16	0048
Endrin	625	5	< 5	ug/L	CLH	02/09/16	0048
Dieldrin	625	5	< 5	ug/L	CLH	02/09/16	0048
p,p-DDE	625	5	< 5	ug/L	CLH	02/09/16	0048
alpha Endosulfan	625	5	< 5	ug/L	CLH	02/09/16	0048
Heptachlor epoxide	625	5	< 5	ug/L	CLH	02/09/16	0048
Aldrin	625	5	< 5	ug/L	CLH	02/09/16	0048
delta-BHC	625	5	< 5	ug/L	CLH	02/09/16	0048
gamma-BHC	625	5	< 5	ug/L	CLH	02/09/16	0048
alpha-BHC	625	5	< 5	ug/L	CLH	02/09/16	0048
Endosulfan sulfate	625	5	< 5	ug/L	CLH	02/09/16	0048
N-Nitrosodimethylamine	625	5	< 5	ug/L	CLH	02/09/16	0048
Hexachlorobenzene	625	5	< 5	ug/L	CLH	02/09/16	0048
Fluoranthene	625	5	< 5	ug/L	CLH	02/09/16	0048
Hexachloroethane	625	5	< 5	ug/L	CLH	02/09/16	0048
1,2,4-Trichlorobenzene	625	5	< 5	ug/L	CLH	02/09/16	0048
2-Chloronaphthalene	625	5	< 5	ug/L	CLH	02/09/16	0048
Bis(2-chloroethyl) ether	625	5	< 5	ug/L	CLH	02/09/16	0048
Bis(2-chloroisopropyl) ether	625	5	< 5	ug/L	CLH	02/09/16	0048

James R. Reed & Associates

770 Pilot House Drive, Newport News, VA 23606

(757) 873-4703 • Fax: (757) 873-1498

VELAP# 460013 EPA# VA00015



REPORT OF ANALYSIS

SAMPLE ID: Outfall 001 SAMPLE NO: 16-01434

	Method	JRA					
Parameter	Number	QL	Result	Unit	Analyst	Date	Time
Semi-Volatiles							***************************************
N-Nitroso-di-n-propylamine	625	5	< 5	ug/L	CLH	02/09/16	0048
Nitrobenzene	625	5	< 5	ug/L	CLH	02/09/16	0048
Isophorone	625	5	< 5	ug/L	CLH	02/09/16	0048
Bis(2-chloroethoxy)methane	625	5	< 5	ug/L	CLH	02/09/16	0048
Naphthalene	625	5	< 5	ug/L	CLH	02/09/16	0048
Acenaphthylene	625	5	< 5	ug/L	CLH	02/09/16	0048
4-Bromophenyl phenyl ether	625	5	< 5	ug/L	CLH	02/09/16	0048
di-n-Butyl phthalate	625	5	< 5	ug/L	CLH	02/09/16	0048
Hexachlorobutadiene	625	5	< 5	ug/L	CLH	02/09/16	0048
Dimethyl phthalate	625	5	< 5	ug/L	CLH	02/09/16	0048
Phenanthrene	625	5	< 5	ug/L	CLH	02/09/16	0048
Anthracene	625	5	< 5	ug/L	CLH	02/09/16	0048
N-nitroso-di-phenylamine	625	5	< 5	ug/L	CLH	02/09/16	0048
1,2,-Diphenylhydrazine	625	5	< 5	ug/L	CLH	02/09/16	0048
Diethyl phthalate	625	5	< 5	ug/L	CLH	02/09/16	0048
4-Chlorophenyl phenyl ether	625	5	< 5	ug/L	CLH	02/09/16	0048
Fluorene	625	5	< 5	ug/L	CLH	02/09/16	0048
2,4-Dinitrotoluene	625	5	< 5	ug/L	CLH	02/09/16	0048
Acenaphthene	625	5	< 5	ug/L	CLH	02/09/16	0048
2,6-Dinitrotoluene	625	5	< 5	ug/L	CLH	02/09/16	0048
Volatiles			-				00.0
1,2-Dichloropropane	624	5	< 5	ug/L	SDT	02/03/16	1357
cis-1,2-Dichloroethene	624	5	< 5	ug/L	SDT	02/03/16	1357
Bromodichloromethane	624	5	< 5	ug/L	SDT	02/03/16	1357
Carbon Tetrachloride	624	5	< 5	ug/L	SDT	02/03/16	1357
1,1,1-Trichloroethane	624	5	< 5	ug/L	SDT	02/03/16	1357
1,2-Dichloroethane	624	5	< 5	ug/L	SDT	02/03/16	1357
Chloroform	624	5	19	ug/L	SDT	02/03/16	1357
1,1,2,2-Tetrachloroethane	624	5	< 5	ug/L	SDT	02/03/16	1357
1,1-Dichloroethane	624	5	< 5	ug/L	SDT	02/03/16	1357
1,1-Dichloroethene	624	5	< 5	ug/L	SDT	02/03/16	1357
Trichlorofluoromethane	624	5	< 5	ug/L	SDT	02/03/16	1357
Methylene Chloride/Dichlorometha		5	< 5	ug/L	SDT	02/03/16	1357
Vinyl Chloride	624	5	< 5	ug/L	SDT	02/03/16	1357
Bromomethane	624	5	< 5	ug/L	SDT	02/03/16	1357
Chloromethane (Methyl Chloride)	624	5	< 5	ug/L	SDT	02/03/16	1357
trans-1,3-Dichloropropene	624	5	< 5	ug/L	SDT	02/03/16	1357
1,2-Dichlorobenzene	624	5	< 5	ug/L	SDT	02/03/16	1357
Chloroethane	624	5	< 5	ug/L	SDT	02/03/16	1357
Toluene	624	5	< 5	ug/L ug/L	SDT	02/03/16	1357
trans-1,2-Dichloroethene	624	5	< 5	ug/L ug/L	SDT	02/03/16	1357
Dichlorodifluoromethane	624	5	< 5	ug/L ug/L	SDT	02/03/16	1357
	624	5	< 5	ug/L ug/L	SDT	02/03/16	1357
1,4-Dichlorobenzene	h /4	~	< 3	11(7/1	V () ()	\$ \$ 7 /\$ \$ 3 / 1 E3	

James R. Reed & Associates

770 Pilot House Drive, Newport News, VA 23606

(757) 873-4703 • Fax: (757) 873-1498

VELAP# 460013 EPA# VA00015



REPORT OF ANALYSIS

SAMPLE ID: Outfall 001 SAMPLE NO: 16-01434

Parameter	Method Number	JRA QL	Result	Unit	Analyst	Date	Time
Volatiles	TAGNEDO	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		V 18.16	221141736	LP 66 LV	IIIIV
1,3-Dichloropropene(cis & trans)	624	5	< 5	ug/L	SDT	02/03/16	1357
Acrolein	624	50	< 50	ug/L	SDT	02/03/16	1357
Acrylonitrile	624	50	< 50	ug/L	SDT	02/03/16	1357
Chlorobenzene/Monochlorobenzene	624	5	< 5	ug/L	SDT	02/03/16	1357
Trichloroethene	624	5	< 5	ug/L	SDT	02/03/16	1357
Tetrachloroethene	624	5	< 5	ug/L	SDT	02/03/16	1357
Bromoform	624	5	< 5	ug/L	SDT	02/03/16	1357
2-Chloroethyl vinyl ether	624	10	< 10	ug/L	SDT	02/03/16	1357
cis-1,3-Dichloropropene	624	5	< 5	ug/L	SDT	02/03/16	1357
Benzene	624	5	< 5	ug/L	SDT	02/03/16	1357
1,1,2-Trichloroethane	624	5	< 5	ug/L	SDT	02/03/16	1357
Dibromochloromethane	624	5	< 5	ug/L	SDT	02/03/16	1357
Ethylbenzene	624	5	< 5	ug/L	SDT	02/03/16	1357

NOTES:

JRA Quantification Level is the concentration of the lowest calibration standard above zero with a reliable signal.

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The results on this report relate only to the sample(s) provided for analysis.

Results conform to NELAC standards, where applicable, unless otherwise indicated.

2,3,7,8, TCDD subcontracted to Pace Analytical.

CC - Calibration check standard above QC acceptance range, analyte not detected in sample.

Authorized By: Clarie Clarken

Elaine Claiborne, Laboratory Director

Date: 23-Feb-16

VELAP# 460013 EPA# VA00015





CHAIN OF CUSTODY

ter, GW = Groundwat	By:	ter, GW =	By:	By:	ter, GW =	water, GW =	ter, GW =	er, GW =	WW= Wastewater, GW = Groundwater, DW - Drinking Water, HV	WW= Wastewater, GW = Groundwater, DW - Drinking Water, HW												Date	Sample Sample Location Start		Bob Magette CELL:	Project ID: Black Swamp	email result to: rmajette@ssa-va.org	Address: 4300 beet Steak Road, Waverly, VA 23090	Nesults 10. DOD Wajette (004-031-4002)	(80A R04 AE80)		Company Name: Sussex Service Authority		
	Dai	7	Da	79	ادر	Da	D _A	Dat	Dai		- Hazardous			i-tanana da	Committee of the state of th						- American	Time Date	Start End	Composite		OLI MATERIA DE LA CONTRACTOR DE LA CONTR	org	/H 23090	22000	108 -year	Telephone: 804-834-8930			
	Date/Time:		Date/Time:	Date: I line.	e/Time:	Date/Time-2-7	PTIME 2-	Date/Time: 2/	Date/Time: ②/		Waste, OTHERS											te Time	d End		804-691-4582	carrene management project participate de l'annual de l'annual de l'annual de l'annual de l'annual de l'annual		- COLOR DE LA COLO	0000	1 831 803	4-834-893			
	man (Thinks a street and a street	un period de la compansa de la comp		1016		クター	1-110	116	116	~	ERS				Transford and demonstration of the contraction of t					,	2//	-	Date	Grab	582	oosiobesi (dispersione)	-	recession manage		N in				
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	*****CN Interference Check:	****									***************************************				AND THE PROPERTY OF THE PARTY O						×	Vol	atile	es*	120001/45/1	on numer	uedoh		·		- Paris and a second		A1-3	
Sulfide: (Considering Agent:	Interfe	1		J = 14020203	n II Zu	4 = NaOH	$3 = H_2SO_4$	$2 = HNO_3$	1 = <6°C	Preservatives:											×	Ser	mivo	olati	iles	*			**********	aci quanto		_\	B1-2	
ng Ager	rence)		$02U_3$						atives:		_											,7,8	nwazawi	DD	** (sul	000	ntı	ac	t)	-+	C1-2	
# 6		2				9 = NH,CI	$= H_2S($	= NaO	= Na ₂ S					_		ε ₍₎		-	MANAGERA				tals anid		***(nte	rfe	rer	ce		\dashv	\dashv	D	2
	J.,					Ω	$8 = H_2SO_4 + FAS$	7 = NaOH + ZnOAc	$6 = Na_2S_2O_3 + HCI$		-					HC)BV	15	< } 	-lu	×	Ch	eck)	AN IN IN IN		omercia esta		acusowa.			1,4	Ш	WALL OLD MEMOLOTED
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JAMES R. REED and ASSOCIATES '757) 873-4703; FAX (757) 873-1498

Appendix D
Sludge Management Plan

FACILITY NAME:

VPDES PERMIT NUMBER:

VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D spend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

- 1. All applicants must complete Section A (General Information).
- 2. Will this facility generate sewage sludge? X Yes _No

Will this facility derive a material from sewage sludge? Yes X No

If you answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material Derived From Sewage Sludge).

Will this facility apply sewage sludge to the land? Yes XNo 3.

Will sewage sludge from this facility be applied to the land? Yes X No

If you answered No to both questions above, skip Section C.

If you answered Yes to either, answer the following three questions:

- Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A a. pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? _Yes _No
- Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application h to the land? _Yes _No
- Will sewage sludge from this facility be sent to another facility for treatment or blending? _Yes XNo c.

If you answered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).

If you answered Yes to a, b or c, skip Section C.

4. Do you own or operate a surface disposal site? Yes X_{No}

If Yes, complete Section D (Surface Disposal).

SECTION A CENERAL INFORMATION

· · · · · · · · · · · · · · · · · · ·	SECTION A.	GENTLEMAN BURN GROUNDA	
All applicants must complete this section.			

1.		ty Information.
	a.	Facility name: Black Swamp WWTF
	b.	Contact person: Michael P. Kearns
		Title: Engineer
		Phone: 804) 834-8930
	c.	Mailing address: 4385 Beef Steak Rd
		Street or P.O. Box: City or Town: Waverly State: Va Zip: 23890
	d.	Facility location:
		Street or Route #: 4385 Beef Steak Rd
		County: City or Town: <u>Waverly</u> State: Va _{Zip:} 23890
		City or Town: Waverly State: Va Zip: 23890 Is this facility a Class I sludge management facility? Yes X No
	e. f.	
,		Facility design flow rate: 0.6070.9971.6 mgd Total population served: 5,877
	g. h.	
	11.	Indicate the type of facility: X Publicly owned treatment works (POTW)
		Privately owned treatment works
		Federally owned treatment works
		Blending or treatment operation
		Surface disposal site
		Other (describe):
		Outer (describe).
2.	Appli	cant Information. If the applicant is different from the above, provide the following:
	a.	Applicant name: Sussex Service Authority
	b.	Mailing address: 4385 Beef Steak Rd
		Street or P.O. Box:
		City or Town: Waverly State: Va Zip: 23890
	c.	Contact person: Frank H. Irving III
		Title: Executive Director
		Phone: 804 834-8930
	d.	Is the applicant the owner or operator (or both) of this facility?
		X operator
	e.	Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)
		facility X applicant
_		
3.		t Information.
	a.	Facility's VPDES permit number (if applicable): VA0088978
	b.	List on this form or an attachment, all other federal, state or local permits or construction approvals received on
		applied for that regulate this facility's sewage sludge management practices:
		Permit Number: Type of Permit:
1	ئان سا	Country Door any conquestion tweatment storage analisation to land and invest of several 1.
4.	inglai	n Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this y occur in Indian Country?Yes XNo If yes, describe:
	raciill	y occur in mutan country?res Ano 11 yes, describe:

FACILITY NAME:	Black Swamp	WWTF
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8.

VPDES PERMIT NUMBER: VA0088978

- 5. Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:
 - a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.
 - b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.
- 6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction. See Appendix B of the Application for topographic map and process flow diagrams

7.	Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge
	generation, treatment, use or disposal the responsibility of a contractor? Yes X No
	If yes, provide the following for each contractor (attach additional pages if necessary).
	Name:

Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:

Mailing address:		
Street or P.O. Box:		
City or Town:	State:	Zip:
Phone: ()		

If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).

Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for

the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old.

Data shown in Table below obtained from SMP Approved 12/2/2015

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic	BDL	1/10/06	SW-846METH311	0.10 mg/L
Cadmium	BDL	1/10/06	SW-846METH311	0.10 mg/L
Chromium	BDL	1/10/06	SW-846METH311	0.10 mg/L
Copper	N/A	N/A	N/A	N/A
Lead	BDL	1/10/06	SW-846METH311	0.10 mg/L
Mercury	BDL	1/10/06	SW-846METH311	0.10 mg/L
Molybdenum	N/A	N/A	N/A	N/A
Nickel	N/A	N/A	N/A	N/A
Selenium	BDL	1/10/06	SW-846METH311	0.10 mg/L
Zinc	N/A	N/A	N/A	N/A

9.	Certification. Read and submit the following certification statement with this application. Refer to the instructions to
	determine who is an officer for purposes of this certification. Indicate which parts of the application you have
	completed and are submitting:

Х	_Section A (General Information)
	_Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)
	_Section C (Land Application of Bulk Sewage Sludge)
	_Section D (Surface Disposal)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title

Date Signed 3/29/16

Telephone number

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

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SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

1.	Amou	nt Generated On Site.
	Total	dry metric tons per 365-day period generated at your facility: 653 dry metric tons
2.	dispos	nt Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or eal, provide the following information for each facility from which sewage sludge is received. If you receive e sludge from more than one facility, attach additional pages as necessary. Facility name: Contact Person:
		Title: Phone ()
	c.	Mailing address: Street or P.O. Box: City or Town: State: Zip:
	d.	Facility Address: (not P.O. Box)
	e. f.	Total dry metric tons per 365-day period received from this facility: dry metric tons Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:
3.	Treatn	nent Provided at Your Facility.
	a.	Which class of pathogen reduction is achieved for the sewage sludge at your facility? Class AClass B X_Neither or unknown
	b.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge: Not Applicable
	c.	Which vector attraction reduction option is met for the sewage sludge at your facility? Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids) X None or unknown
	d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge: Not Applicable
	e.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including blending, not identified in a - d above: Not Applicable
ļ .	of Vec (If sew a.	ration of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and One stor Attraction Reduction Options 1-8 (EQ Sludge). Tage sludge from your facility does not meet all of these criteria, skip Question 4.) Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land: Not Applicable dry metric tons Is sewage sludge subject to this section placed in bags or other containers for sale or give-away? Yes XNo
Ç.		Give-Away in a Bag or Other Container for Application to the Land.
		lete this question if you place sewage sludge in a bag or other container for sale or give -away prior to land ation. Skip this question if sewage sludge is covered in Question 4.)

Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility

CILITY NAMI	Black Swamp WWTF	Not	VPDES PERMIT NUMBER:	VA0088978							
	for sale or give-away for application to the l	land: Applicabledry	v metric tons								
b.	Attach, with this application, a copy of all l given away in a bag or other container for a	abels or notices tha	at accompany the sewage sludge	e being sold or							
	given away in a bag of other container for a	ppireation to the la	iid.								
(Comple This que question	at Off Site for Treatment or Blending. te this question if sewage sludge from your faction does not apply to sewage sludge sent did if the sewage sludge is covered in Questions all sheets as necessary.)	rectly to a land app 4 or 5. If you send	lication or surface disposal site. sewage sludge to more than one	Skip this							
a.	Receiving facility name: McGill Environmental Systems (McGill - Waverly)										
b.	Facility contact: Title: Plant Manager Phone: (804) 834-8820										
c.	Mailing address: 5056 Beef Steak Road Street or P.O. Box:	State: <mark>Va</mark> Zip:	23800								
đ.	Total dry metric tons per 365-day period of stons	sewage sludge prov	vided to receiving facility: 500	•							
	List, on this form or an attachment, the receiv other federal, state or local permits that regu practices:										
	Permit Number:	Type of Permit:									
	Does the receiving facility provide additional facility? X YesNo Which class of pathogen reduction is achieved.			-							
	X Class AClass B	Neith	er or unknown								
	Describe, on this form or another sheet of p reduce pathogens in sewage sludge: Comp	aper, any treatmen osting	t processes used at the receiving	g facility to							
	Does the receiving facility provide additional sewage sludge?YesNo										
	Which vector attraction reduction option is a Option 1 (Minimum 38 percent reduction Option 2 (Anaerobic process, with bench	in volatile solids)		•							
	Option 3 (Aerobic process, with bench-s										
	Option 4 (Specific oxygen uptake rate for										
	X Option 5 (Aerobic processes plus raised	temperature)	ou oluge,								
	Option 6 (Raise pH to 12 and retain at 11.	5)									
	Option 7 (75 percent solids with no unsta Option 8 (90 percent solids with unstability None unknown	ibilized solids)									
	Describe, on this form or another sheet of pareduce vector attraction properties of sewag			facility to							
h	Does the receiving facility provide any addit Yes XNo	tional treatment or	blending not identified in f or g	above?							
	If yes, describe, on this form or another shee	et of paper, the trea	tment processes not identified in	n f or g above:							
i. 1	If you answered yes to f., g or h above, attacto comply with the "notice and necessary info	h a copy of any inf ormation" requirem	formation you provide to the receient of 9 VAC 25-31-530.G. For	eiving facility ns Attached							
;	Does the receiving facility place sewage sluc away for application to the land?Yes X_	No		_							
k.	If yes, provide a copy of all labels or notices Will the sewage sludge be transported to the used for such purposes? X Yes No. I transport the sewage sludge to the receiving Show the haul route(s) on a location map or	receiving facility in If no, provide description facility.	in a truck-mounted watertight tarription and specification on the	nk normally vehicle used to							
	rucks would exit BSWWTF turn left on B										

week and the times of the day sewage sludge will be transported.

	Land	Application of Bulk Sewage Sludge. Not Applicable to BSWWTF
	(Com	plete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in
		tions 4, 5 or 6; complete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)
	a.	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:dry metric
	1	tons
	b.	Do you identify all land application sites in Section C of this application?YesNo
		If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in
		accordance with the instructions).
	c.	Are any land application sites located in States other than Virginia?YesNo If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the
		States where the land application sites are located. Provide a copy of the notification.
		states where the fand application sites are located. I rovide a copy of the notification.
	d.	Attach a copy of any information you provide to the owner or lease holder of the land application sites to
	u.	comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples
		may be obtained in Appendix IV).
8.	Cramfo	
٥.		ce Disposal. Not Applicable to BSWWTF plete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal
	и.	sites: dry metric tons
	b.	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? YesNo
		If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send
		sewage sludge to more than one surface disposal site, attach additional pages as necessary.
	c.	Site name or number:
	d.	Contact person:
		Title:
		Phone: ()
		Contact is:Site OwnerSite operator
	e.	Mailing address.
		Street or P.O. Box: City or Town: Zip:
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal
	1,	site: dry metric tons
	g.	List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of
	Ü	all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface
		disposal site:
		Permit Number: Type of Permit:
9.	Incine	eration. Not Applicable to BSWWTF
		plete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)
	à.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge
		incinerator: dry metric tons
	b.	Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?
		YesNo
		If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send
		sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.
	C.	Incinerator name or number:
	d.	Contact person: Title:
		Phone: ()
		Contact is:Incinerator OwnerIncinerator Operator
	e.	Mailing address.
		Street or P.O. Box:

FACI	LITYNAI	ME: Black Swamp WWTF VPDES PERMIT NUMBER: VA0088978
11101		City or Town: State: Zip:
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge
		incinerator: dry metric tons
	g.	List on this form or an attachment the numbers of all other federal, state or local permits that regulate the firing
		of sewage sludge at this incinerator:
		Permit Number: Type of Permit:
10.		sal in a Municipal Solid Waste Landfill.
		plete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the
		ring information for each municipal solid waste landfill on which sewage sludge from your facility is placed. If
		e sludge is placed on more than one municipal solid waste landfill, attach additional pages as necessary.)
	a.	Landfill name: Atlantic Waste Disposal Inc.
	b.	Contact person: Jason Williams Title: District Manager
		Phone: 604 834-8300
		Contact is:Landfill Owner X_Landfill Operator
	c.	Mailing address. 3474 Atlantic Lane
	•	Street or P.O. Box:
		City or Town: Waverly State: Va Zip: 23890
	d.	Landfill location. 3474 Atlantic Lane
		Street or Route #:
		County:
		City or Town: Waverly State: Va Zip: 23890
	e.	Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill:
		dry metric tons
	f.	List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the operation
		of this municipal solid waste landfill:
		Permit Number: Type of Permit:
		562 VDEQ Solid Waste
	~	
	g.	Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9 VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill?
		X YesNo
	h.	Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid Waste
	11.	Management Regulation, 9 VAC 20-80-10 et seq.? XYes No
	i.	Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill
		be watertight and covered? X Yes No
		Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the week
		and time of the day sewage sludge will be transported. Exit Black Swamp, right on Beef Steak Rd, left on Cab
		Pt Rd to Atlantic Lane, turn left into Landfill entrance.
		Transport 7 am to 6 pm M-F
		The second of th

Complete this section for sewage sludge that is land applied unless any of the following conditions apply:

Black Swamp WWTF

VPDES PERMIT NUMBER:

SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

	requi The s	ewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen rements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or ewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or
ompl		provide the sewage sludge to another facility for treatment or blending (fill out B.6 instead). Ion C for every site on which the sewage sludge that you reported in B.7 is land applied.
	Ident	ification of Land Application Site.
	a.	Site name or number:
	b.	Site location (Complete i and ii)
		i. Street or Route#:
		County:
		City or Town: State: Zip:
		City or Town: State: Zip: ii. Latitude: Longitude:
		Method of latitude/longitude determination
		USGS map Filed survey Other
	c.	Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable
		that shows the site location.
	Owne	er Information.
	a.	Are you the owner of this land application site?YesNo
	b.	If no, provide the following information about the owner:
		Name:
		Street or P.O. Box:
		City or Town: State: Zip: Phone: ()
		er Information:
	a.	Are you the person who applies, or who is responsible for application of, sewage sludge to this land
	1	application site?YesNo
	Ъ.	If no, provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box:
		City or Town: State: Zip:
		Phone: ()
	c.	List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person
		who applies sewage sludge to this land application site:
		Permit Number: Type of Permit:
	Site T	ype. Identify the type of land application site from among the following:
		ricultural landReclamation siteForest
	Pul	olic contact siteOther. Describe
	Vecto	r Attraction Reduction.
		ny vector attraction reduction requirements met when sewage sludge is applied to the land application site?
	a.	Indicate which vector attraction reduction option is met:
	a.	Option 9 (Injection below land surface)
		Option 10 (Incorporation into soil within 6 hours)
	b.	Describe, on this form or on another sheet of paper, any treatment processes used at the land application sit
	0.	to reduce the vector attraction properties of sewage sludge:
		The state of the s
	Cumu	lative Loadings and Remaining Allotments.
		olete Question 6 only if the sewage sludge applied to this site since July 20, 1993 is subject to the cumulative

Have you contacted DEQ or the permitting authority in the state where the sewage sludge subject to the

pollutant loading rates (CPLRs) - see instructions.)

site since July 20, 1993?YesNo	FACI	LITYNAM	
If no, sewage sludge subject to the CPLRs may not be applied to this site. If yes, provide the following information: Permitting authority: Contact person: Phone() b. Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, 1993? _Yes _No If no, skip the rest of Question 6. If yes, answer questions c -e. c. Site size, in hectares: (one hectare = 2.471 acres) d. Provide the following information for every facility other than yours that is sending or has sent sewage sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary. Facility contact: Title: Phone: () Mailing address. Street or P.O. Box: City or Town: State: Zip: c. Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: Camulative loading Allotment remaining Arsenic Camulative loading Allotment remaining Arsenic State: Zip: Copper Remaining Copper Selmium			CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this
If yes, provide the following information: Permitting authority: Contact person: Phone: Phone: Phone: Phone: Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, 1993? YesNo If no, skip the rest of Question 6. If yes, answer questions c - e. C. Site size, in hectares: d. Provide the following information for every facility other than yours that is sending or has sent sewage sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary. Facility name: Facility contact: Title: Phone: Phone: One: Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: Camulative loading Allotment remaining Arsenic Cadmium Copper Lead Mercury Nickel Selenium Zinc Americany Nickel Selenium Zinc Omplete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation. 7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter. PCBs (mg/kg) pH (S. U.) Percent Solids (%) Ammonium Nitrogen (mg/kg) Nitrate Nitrogen (mg/kg) Total Plosphorus (mg/kg)			
Permitting authority: Contact person: Phone(**) b. Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, 1993?YesNo If no, skip the rest of Question 6. If yes, answer questions c - e. c. Site size, in hectares: (one hectare = 2.471 acres) d. Provide the following information for every facility other than yours that is sending or has sent sewage sludge subject to the CPLRs to this site isince July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary. Facility ame: Facility contact: Title: Phone: () Mailing address. Street or P.O. Box: City or Town: State: Zip: e. Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: Camulative loading Allotment remaining Arsenic Camulative loading Allotment remaining Capper Lead Mercury Nickel Selenium	elen _{er.}		
Contact person: Phone: Phone: Phone: Phone: b. Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, 1993?YesNo If no, skip the rest of Question 6. If yes, answer questions c - c. c. Site size, in hectares:			
Phone:() b. Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, 1993? _Yes _No If no, skip the rest of Question 6. If yes, answer questions c -e. c. Site size, in hectares:			
b. Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, 1993? _YesNo If no, skip the rest of Question 6. If yes, answer questions c - e. c. Site size, in hectares:			
1993? _Yes _No ft no, skip the rest of Question 6. If yes, answer questions c - e. C. Site size, in hectares: (one hectare = 2.471 acres) d. Provide the following information for every facility other than yours that is sending or has sent sewage sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary. Facility name: Facility contact: Title:			
d. Provide the following information for every facility other than yours that is sending or has sent sewage sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary. Facility contact: Title: Phone: () Mailing address. Street or P.O. Box: City or Town State: Zip: e. Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: Camulative loading Allotment remaining Arsenic Allotment remaining Copper Lead Mercury Nickel Selenium Selenium Zinc Selenium Zinc Selenium Zinc Selenium for this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation. 7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter. PCBs (mg/kg) pH (S. U.) Percent Solids (%) Ammonium Nitrogen (mg/kg) Total Potassium (mg/kg)		b.	1993?YesNo If no, skip the rest of Question 6. If yes, answer questions c - e.
subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary. Facility contact: Title: Phone: () Mailing address. Street or P.O. Box: City or Town: City or Town: State: Camulative loading Arsenic Cadmium Copper Lead Mercury Nickel Selenium Zinc Junglete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter. PCBs (mg/kg) PH (S. U.) Percent Solids (%) Ammonium Nitrogen (mg/kg) Nitrate Nitrogen (mg/kg) Total Phosphorus (mg/kg) Total Phossium (mg/kg)		c.	Site size, in hectares: (one hectare = 2.471 acres)
this site, attach additional pages as necessary. Facility name: Facility contact: Title: Phone: () Mailing address. Street or P.O. Box: City or Town: State: Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: Camulative loading Arsenic Cadmium Copper Lead Mercury Nickel Selenium Zinc Jinc Jinc Jinc Jinc Jincy Jincy John John Jincy John Jincy John Jincy John Jincy John John John Jincy John John John Jincy John John John John John John John John		d.	Provide the following information for every facility other than yours that is sending or has sent sewage sludge
Facility name: Facility contact: Title: Phone: () Mailing address. Street or P.O. Box: City or Town: City or Town: e. Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: Cumulative loading Allotment remaining Arsenic Cadmium Copper Lead Mercury Nickel Selenium Zinc Jone Jone Jone Jone Jone Jone Jone Jo			
Facility contact: Title: Phone: () Mailing address. Street or P.O. Box: City or Town: State:Zip: e. Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: Cumulative loading Allotment remaining Arsenic Cadmium Copper Lead Mercury Nickel Selenium Zinc Implete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation. 7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter. PCBs (mg/kg) pH (S. U.) Percent Solids (%) Ammonium Nitrogen (mg/kg) Nitrate Nitrogen (mg/kg) Total Kjeldahl Nitrogen (mg/kg) Total Potassium (mg/kg) Total Potassium (mg/kg) Total Potassium (mg/kg)			
Title: Phone: () Mailing address. Street or P.O. Box: City or Town: State: Zip: e. Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: Cumulative loading Allotment remaining Arsenic Cadmium Copper Lead Mercury Nickel Selenium Zinc Melevity Selenium Zinc Melevity Selenium Zinc Morpury Nickel Selenium Zinc Soludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter. PCBs (mg/kg) pH (S. U.) Percent Solids (%) Ammonium Nitrogen (mg/kg) Nitrate Nitrogen (mg/kg) Total Kjeldahl Nitrogen (mg/kg) Total Potassium (mg/kg)			
Phone: () Mailing address. Street or P.O. Box: City or Town: State: Zip: e. Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: Cumulative loading Allotment remaining Arsenic Cadmium Copper Lead Mercury Nickel Selenium Zinc Selenium Zinc Selenium application to someone else (as indicated under Section A.7) who is responsible for land application of sewage sludge. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter. PCBs (mg/kg) pH (S. U.) Percent Solids (%) Ammonium Nitrogen (mg/kg) Nitrate Nitrogen (mg/kg) Total Kjeldahl Nitrogen (mg/kg) Total Potassium (mg/kg) Total Potassium (mg/kg) Total Potassium (mg/kg) Total Potassium (mg/kg)			·
Mailing address. Street or P.O. Box: City or Town:			
Street or P.O. Box: City or Town: Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: Camulative loading Allotment remaining			
e. City or Town: State: Zip: Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: Camulative loading Allotment remaining Arsenic Allotment remaining Copper Lead Mercury Nickel Selenium Zinc Jinco Selenium Selenium Zinc Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation. 7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter. PCBs (mg/kg) pH (S. U.) Percent Solids (%) Ammonium Nitrogen (mg/kg) Nitrate Nitrogen (mg/kg) Total Potassium (mg/kg) Total Potassium (mg/kg) Total Potassium (mg/kg)			
e. Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: Cumulative loading			
Arsenic Cadmium Copper Lead Mercury Nickel Selenium Zinc Implete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation. 7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter. PCBs (mg/kg) pH (S. U.) Percent Solids (%) Ammonium Nitrogen (mg/kg) Nitrate Nitrogen (mg/kg) Total Kjeldahl Nitrogen (mg/kg) Total Phosphorus (mg/kg) Total Phosphorus (mg/kg) Total Potassium (mg/kg) Total Potassium (mg/kg)			
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Nickel Selenium Zinc mplete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter. PCBs (mg/kg) pH (S. U.) Percent Solids (%) Ammonium Nitrogen (mg/kg) Nitrate Nitrogen (mg/kg) Total Kjeldahl Nitrogen (mg/kg) Total Phosphorus (mg/kg) Total Phosphorus (mg/kg) Total Potassium (mg/kg)			
Selenium Zinc Implete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation. 7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter. PCBs (mg/kg) pH (S. U.) Percent Solids (%) Ammonium Nitrogen (mg/kg) Nitrate Nitrogen (mg/kg) Total Kjeldahl Nitrogen (mg/kg) Total Phosphorus (mg/kg) Total Potassium (mg/kg) Total Potassium (mg/kg)			
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Percent Solids (%) Ammonium Nitrogen (mg/kg) Nitrate Nitrogen (mg/kg) Total Kjeldahl Nitrogen (mg/kg) Total Phosphorus (mg/kg) Total Potassium (mg/kg)			
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Total Kjeldahl Nitrogen (mg/kg) Total Phosphorus (mg/kg) Total Potassium (mg/kg)			
Total Phosphorus (mg/kg) Total Potassium (mg/kg)			
Total Potassium (mg/kg)			
			Alkalinity as CaCO ₃ (mg/kg)

Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO₃.

Storage Requirements.

Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements.

Proposed sludge storage facilities must also provide the following information:

- A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.
 - 1) Water wells, abandoned or operating
 - 2) Surface waters
 - 3) Springs
 - 4) Public water supply(s)
 - 5) Sinkholes
 - 6) Underground and/or surface mines
 - 7) Mine pool (or other) surface water discharge points
 - 8) Mining spoil piles and mine dumps
 - 9) Quarry(s)
 - 10) Sand and gravel pits
 - Gas and oil wells 11)
 - 12) Diversion ditch(s)
 - 13) Agricultural drainage ditch(s)
 - 14) Occupied dwellings, including industrial and commercial establishments
 - 15) Landfills or dumps
 - 16) Other unlined impoundments
 - 17) Septic tanks and drainfields
 - 18) Injection wells
 - 19) Rock outcrops
- A topographic map of sufficient detail to clearly show the following information: b.
 - Maximum and minimum percent slopes 1)
 - 2) Depressions on the site that may collect water
 - 3) Drainageways that may attribute to rainfall run-on to or runoff from this site
 - 4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding
- Data and specifications for the storage facility lining material. C.
- d. Plan and cross-sectional views of the storage facility.
- Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent water table.
- 9. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings (CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application.
- 10. Landowner Agreement Forms. Provide a properly completed Land Application Agreement - Biosolids Form and necessary attachments (attached at end of VPDES Sewage Sludge Permit Application Form) for each landowner if sewage sludge is to be applied onto land not owned by the applicant.
- 11. Ground Water Monitoring.

Are any ground water monitoring data available for this land application site? __Yes __No If yes, submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these

Land Application Site Information. 12.

> (Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)

a. Provide a general location map for each county which clearly indicates the location of all the land application

- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U.
 S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U. S. Fish and Wildlife Service Virginia Field Office 6669 Short Lane Gloucester, VA 23061 TEL: (804)693-6694

Provide a copy of the notification letter with this application form.

d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)

Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.

- 1) Soil symbol
- 2) Soil series, textural phase and slope range
- 3) Depth to seasonal high water table
- 4) Depth to bedrock
- 5) Estimated soil productivity group (for the proposed crop rotation)

Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site.

 Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
 - 1). Soil symbol
 - 2). Soil series, textural phase and slope range
 - 3). Depth to seasonal high water table
 - 4). Depth to bedrock
 - 5). Estimated soil productivity group (for the proposed crop rotation)



FACILITY NAME: Black Swamp WWTF Not Applicable to BSWWTF VPDES PERMIT NUMBER: VA0088978

f. Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the following parameters.

Soil Organic Matter (%)

Soil pH (std. units)

Cation Exchange Capacity (meq/100g)

Total Nitrogen (ppm)

Organic Nitrogen (ppm)

Ammonia Nitrogen (ppm)

Nitrate Nitrogen (ppm)

Available Phosphorus (ppm)

Exchangeable Potassium (mg/100g)

Exchangeable Sodium (mg/100g)

Exchangeable Calcium (mg/100g)

Exchangeable Magnesium (mg/100g)

Arsenic (ppm)

Cadmium (ppm)

Copper (ppm)

Lead (ppm)

Mercury (ppm)

Molybdenum (ppm)

Nickel (ppm)

Selenium (ppm)

Zinc (ppm)

Manganese (ppm)

Particle Size Analysis or

USDA Textural Estimate (%)

- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.

SECTION D. SURFACE DISPOSAL

	ormation on Active Sewage Sludge Units.
a.	Unit name or number:
b.	Unit location
	i. Street or Route#:
	County:
	City or Town: State: Zip: ii. Latitude: Longitude:
	ii. Latitude: Longitude:
	Method of latitude/longitude determination
	USGS map Filed survey Other
C.	Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable that shows the site location.
d.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period:
u.	dry metric tons.
e.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit:
٠.	dry metric tons.
f.	Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of
	1 x 10 ⁷ cm/sec? Yes No If yes, describe the liner or attach a description.
g.	Does the active sewage sludge unit have a leachate collection system?YesNo
	If yes, describe the leachate collection system or attach a description. Also, describe the method used for
	leachate disposal and provide the numbers of any federal, state or local permits for leachate disposal:
h.	If you analysis and to either for a grown the following.
11.	If you answered no to either f or g, answer the following:
	Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface disposal site?YesNo If yes, provide the actual distance in meters:
i.	Remaining capacity of active sewage sludge unit, in dry metric tons: dry metric tons
1.	Anticipated closure date for active sewage sludge unit, if known: (MM/DD/YYYY)
	Provide with this application a copy of any closure plan developed for this active sewage sludge unit.
	Trovide with this apprearion a copy of any closure plan developed for this active sewage studge unit.
Sew	age Sludge from Other Facilities.
	wage sludge sent to this active sewage sludge unit from any facilities other than yours?YesNo
	s, provide the following information for each such facility, attach additional sheets as necessary.
a.	Facility name:
b.	Facility contact:
	Title:
	Phone: ()
c.	Mailing address.
	Street or P.O. Box:
	City or Town: State: Zip:
d.	List, on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other
	federal, state or local permits that regulate the facility's sewage sludge management practices:
	Permit Number: Type of Permit:
	Manufacture and the second of
e.	Which class of pathogen reduction is achieved before sewage sludge leaves the other facility?
	Class AClass BNeither or unknown
f.	Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to
	reduce pathogens in sewage sludge:
g.	Which vector attraction reduction option is achieved before sewage sludge leaves the other facility?

FACIL	ITY NAI	ME: Black Swamp WWTF	Not Applicable to BSWW1F	VPDES PERMIT NUMBER: VA008897
	h.	Option 2 (Anaerobic pro Option 3 (Aerobic proce Option 4 (Specific oxyge Option 5 (Aerobic proce Option 6 (Raise pH to 12 Option 7 (75 percent soli Option 8 (90 percent soli None or unknown Describe, on this form or an	ds with no unstabilized solids) ds with unstabilized solids) other sheet of paper, any treatment processes us	ed at the other facility to reduce
		vector attraction properties	of sewage sludge:	
	i.	Describe, on this form or an the other facility that are not	other sheet of paper, any other sewage sludge tre identified in e - h above:	atment activities performed by
3.	Vector	r Attraction Reduction.		
	a.		into soil within 6 hours)	is placed on this active sewage
	b.	Describe, on this form or an	other sheet of paper, any treatment processes use on properties of sewage sludge:	ed at the active sewage sludge
4,	Groun	d Water Monitoring.		
	a.	Is ground water monitoring of monitoring data otherwise as If yes, provide a copy of ava	currently conducted at this active sewage sludge vailable for this active sewage sludge unit?Y ilable ground water monitoring data. Also provid ate depth to ground water, and the ground water	esNo de a written description of the
	b.		ing program been prepared for this active sewage a copy of the ground water monitoring program	
	c.	sewage sludge unit has not b	ation from a qualified ground water scientist that been contaminated?YesNo ertification with this application.	the aquifer below the active
5.	Are yo	pecific Limits. ou seeking site-specific pollutar No If yes, submit informat	nt limits for the sewage sludge placed on the action to support the request for site-specific polluta	ve sewage sludge unit? ant limits with this application.

Not Applicable to Black Swamp WWTF

VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

LAND APPLICATION AGREEMENT - BIOSOLIDS

here as "Landowner", and in effect until it is terminate Landowner in the event of individual parcels identified	ed in writing by either party or, a sale of one or more parcels,	, referred to here as the "Permittee". This agreement remains or, with respect to those parcels that are retained by the sels, until ownership of all parcels changes. If ownership of s, those parcels for which ownership has changed will no longer					
Landowner: The Landowner is the owner agricultural, silvicultural or Exhibit A.	er of record of the real property reclamation sites identified bel	located in ow in Table 1 and identified or	, Virginia, which includes the the tax map(s) attached as				
	Table 1.: Parcels autho	prized to receive biosolids					
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID				
Additional parcels containing La		 n Supplement A (check if applicable)					
Check one:	ne Landowner is the sole owne	or of the properties identified he cowners of the properties iden	rein.				
38 months of the latest dat 1. Notify the purchase than the date of the	In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall: 1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and 2. Notify the Permittee of the sale within two weeks following property transfer.						
The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.							
The Landowner hereby grants permission to the Permittee to land apply biosolids on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of biosolids for the purpose of determining compliance with regulatory requirements applicable to such application.							
Landowner – Printed Name, Tit	le Signature	Maili	ng Address				
Permittee:							
the VPDES Permit Regulatio	n and in amounts not to exceed	osolids on the Landowner's land the rates identified in the nutrien e with <u>§10.1-104.2 of the Code o</u>	t management plan prepared for				
The Permittee agrees to notified and specifically prior to any papplied.	The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.						
☐ I reviewed the documents this document available to DI	assigning signatory authority to EQ for review upon request. (Do	the person signing for landowner not check this box if the landowner	r above. I will make a copy of signs this agreement)				
Permittee – Authorized Repres		Mailir	ng Address				

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VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

LAN	D APPLICATION AGREEMENT - BIOSOLIDS
Perm	nittee: County or City:
Land	lowner:
Land	downer Site Management Requirements:
	Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing and application of biosolids, the components of biosolids and proper handling and land application of biosolids.
restri	e also been expressly advised by the Permittee that the site management requirements and site access ctions identified below must be complied with after biosolids have been applied on my property in order to protect c health, and that I am responsible for the implementation of these practices.
	ee to implement the following site management practices at each site under my ownership following the land cation of biosolids at the site:
1.	Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2.	 Public Access a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids. b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols; c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3.	 Crop Restrictions: a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids. b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil, c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation. d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids; e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4.	Livestock Access Restrictions: Following biosolids application to pasture or hayland sites: a. Meat producing livestock shall not be grazed for 30 days, b. Lactating dairy animals shall not be grazed for a minimum of 60 days. c. Other animals shall be restricted from grazing for 30 days;
5.	Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6.	Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

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Date

Landowner's Signature

Not Applicable to BSWWTF

VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

LAND APPLICATION AGREEMENT - BIOSOLIDS

Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and each of the legal landowners of those tax parcels. A *Land Application Agreement – Biosolids* form, pages 1 and 2 with original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee:	
County or City:	
Please Print	
Tax Parcel ID(s)	<u>Landowner(s)</u>

Not Applicable to BSWWTF

VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

LAND APPLICATION AGREEMENT - BIOSOLIDS

Supplement A: Addition	nal Land Application Sites		
	Table 1 continued: Parcels auth	orized to receive biosolids.	
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
	-		
	-		
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MINORANA			

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	Additional designation of the second contract		ACCUPATION OF THE PROPERTY AND A SECTION OF THE PROPERTY AND A SEC
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VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-IV BIOSOLIDS CHARACTERIZATION FORM PART D-V NON-HAZARDOUS WASTE DECLARATION

Contact the Department of Environmental Quality's Regional office if instructions beyond those provided in the form are required.

BLack Swamp WWTF

Department of Environmental Quality

Rev. 4-2009

VIRGINIA POLLUTION ABATEMENT APPLICATION

FORM D

MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-IV BIOSOLIDS CHARACTERIZATION FORM

1.	Facility Name:	McGill-Waverly	
2.	Source or Generator:	Sussex Service Authority – Black Swamp WWTF	
3.	Type of Treatment:	Aerobically digested sludge	
4.	Biosolids Treatment Classific	ration: <u>less than Class B</u>	

- 5. Describe the method of sludge treatment or stabilization for each biosolids source. Provide a flow diagram of each wastewater treatment plant's residual treatment train and yearly biosolids production. In addition, provide the design flow of each facility. Aerobically digested then processed through centrifuge.
- 6. For all biosolids, provide at least one analysis for each parameter. The laboratory analytical data must be representative of biosolids samples collected at the frequencies specified in the table below.

<u>Parameter</u>		Biosolids (1)	
Percent Solids		37.2	%
Volatile Solids		·	. %
рН		6.99	S.U.
Alkalinity as CaCO ₃ ⁽²⁾		***************************************	_mg/kg
Nitrogen, (Nitrate)			_ mg/kg
Nitrogen, (Ammonium)			_ mg/kg
Nitrogen, (Total Kjeldahl)			mg/kg
Phosphorus, (Total)			_mg/kg
Potassium, (Total)			mg/kg
Lead		ND	mg/kg
Cadmium		ND	mg/kg
Copper			mg/kg
Nickel			mg/kg
Zinc			mg/kg
Arsenic		ND	mg/kg
Mercury		ND	mg/kg
Molybdenum		***************************************	mg/kg
Polychlorinated biphenols	ND	· ·	mg/kg
Selenium		WOOD SOUTH AND	mg/kg

Values reported on a dry weight basis unless indicated.

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Lime treated biosolids (10% or more lime by dry weight) should be analyzed for percent CaCO₃.

7.	•	ast one analysis for each parameter. The laboratory analytical s collected at the frequencies specified in the table below.
	Parameter	Biosolids ⁽¹⁾
	Aldrin/dieldrin (total)	mg/kg
	Benzo (a) pyrene	mg/kg
	Chlordane	mg/kg
	DDT/DDE/DDD (total) ⁽²⁾	mg/kg
	Dimethyl nitrosamine	mg/kg
	Heptachlor	mg/kg
	Hexachlorobenzene	mg/kg
	Hexachlorobutadiene	mg/kg
	Lindane	mg/kg
	Toxaphene	mg/kg
	Trichloroethylene	mg/kg
8.	Dichloroethane; DDD = 1,1Bis (chlorop	1,1—Trichloroethane; DDE = 1,1—Bis (chlorophenyl)2,2—bhenyl)2,2Dichloroethane ants which you believe may be present in the biosolids. Upon

Biosolids Sampling Frequency

Amount of biosolids (1) (metric tons per 365-day period)	Frequency
Greater than zero but less than 290	Once per year
Equal to or greater than 290 but less than 1,500	Once per quarter (four times per year)
Equal to or greater than 1,500 but less than 15,000	Once per 60 days (six times per year)
Equal to or greater than 15,000	Per month (12 times per year)

⁽¹⁾ Either the amount of bulk biosolids applied to the land or the amount of biosolids received by a person who prepares biosolids that is sold or given away in a bag or other container for application to the land (dry weight basis).

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VIRGINIA POLLUTION ABATEMENT APPLICATION

FORM D

MUNICIPAL EFFLUENT AND BIOSOLIDS

Black Swamp WWTF PART DV NON-HAZARDOUS WASTE DECLARATION

For waste to be land applied, the owner, as defined by 9 VAC 25-32, must sign the following statement.

I certify that the waste described in this application is non-hazardous and not regulated under the Resource Conservation and Recovery Act or the Virginia Hazardous Waste Management Regulation (9 VAC 20-60).

4

Rev. 4-2009



Microbac Laboratories, Inc.

Richmond Division

2028 Dabney Road, Suite E-17 • Richmond, VA 23230

Phone: 804-353-1999 Fax: 804-353-0330 www.microbac.com

CERTIFICATE OF ANALYSIS

Sussex Service Authority Mike Kearns 4385 Beef Steak Road Waverly, VA 23890 Project: WWTP Sludge Recertification Analysis
Project Number: WWTP Sludge Recertification Analysis

Sampled By: C. Bohatec, M.P. Keams

Report: 13D1303

Reported: 05/09/2013 11:53

Black Swamp

13D1303-03 (Sludge) Sampled: 04/16/2013 11:35; Type: Composite

Topica and		Reporting						
Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
	M	ierobae Labo	oratories, Inc	Ohio Valley				
8270 TC	~~~		Anguara a a a a a a a a a a a a a a a a a a					
2,4,5-Trichlorophenol	ND	50.0	ug/L	042313 1500	042413 1312	CAA	SW8270C	Į
2.4,6-Trichlorophenol	ND	50.0	ug/L	042313 1500	042413 1312	CAA	SW8270C	ξ
Surrogate: 2-Fluorophenol		36.8%	21-100	042313 1500	042413 1312		SW8270C	
Surrogate: Phenol-d5		24.3%	10-94	042313 1500	042413 1312		SW8270C	
Surrogate: Nitrohenzene-d5		60.6%	35-114	042313 1500	042413 1312		SW8270C	
Surrogate: 2-Fluorobiphenyl		59.1%	43-116	042313 1500	042413 1312		SW8270C	
ate. 2,4,6-Tribromophenol		89.5%	10-123	042313 1500	042413 1312		SW8270C	
Surrogate: p-Terphenyl-d14		89.3%	33-141	042313 1500	042413 1312		SW8270C	
PCB SOLID	and the last state of the control of	and the second s	The Designation of the Control of th	v				
Aroclor-1016	ND	75.8	ug/kg	041913 1130	042213 2209	ECL	SW8082	t
Aroclor-1221	ND	75 8	ug/kg	041913 1130	042213 2209	ECL.	SW8082	Į.
Aroclor-1232	ND	75.8	ug/kg	041913 1130	042213 2209	ECL	SW8082	l.
Aroclor-1242	ND	75.8	ug/kg	041913 1130	042213 2209	ECL	SW8082	Ę.
Aroclor-1248	ND	75.8	ug/kg	041913 1130	042213 2209	ECL.	SW8082	Į
Aroclor-1254	ND	75.8	ug/kg	041913 1130	042213 2209	ECI	SW8082	ŧ.
Aroclor-1260	ND	75.8	ug/kg	041913 1130	042213 2209	ECL	SW8082	ţ.
Surrogate: 2,4,5,6-Tetrachloro-m-Xylene		62.3%	29-133	041913 1130	042213 2209		SW8082	
Surrogate: Decachlorohyhenyl		57.8%	30-173	041913 1130	042213 2209		SW8082	
Percent Solids	150001111							
Percent Solids	37.2	1.00	weight %		042013 0717	ERP	D2216	
Volatile Organics							***************************************	
Benzene	ND	50.0	ug/L		042613 1336	TMB	SW8260B	Ĺ
Carbon tetrachloride	ND	50 0	ug/L		042613 1336	TMB	SW8260B	ŧ.

Microbac Laboratories, Inc., Richmond Division

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety

All samples received in proper condition and results conform to ISO 17025 and TNI NELAC standards unless otherwise noted.

Curtis B. Read. Project Manager



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Project Number: WWTP Sludge Recertification Analysis

Sampled By: C. Bohatec, M.P. Kearns

Report: 13D1303

Reported: 05/09/2013 11:53

Black Swamp

13D1303-03 (Sludge) Sampled: 04/16/2013 11:35; Type: Composite

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
				- Ohio Valley			P-100-100-100-100-100-100-100-100-100-10	
Volatile Organics				***************************************				
Chlorobenzene	ND	50.0	ug/L		042613 1336	TMB	SW8260B	(:
Chloroform	ND	50.0	ug/L.		042613 1336	TMB	SW8260B	U
1,2-Dichloroethane	ND	50.0	п <u>е</u> /L		042613 1336	TMB	SW8260B	U
1,1-Dichloroethene	ПМ	50 0	ug/l.		042613 1336	TMB	SW8260B	U
Methyl Ethyl Ketone	ND	100	ug/L		042613 1336	TMB	SW8260B	U
Tetrachloroethene	ND	50.0	ug/L		042613 1336	TMB	SW8260B	U
chloroethene	ND	50.0	ug/L		042613 1336	TMB	SW8260B	U
Vinyl chloride	ND	100	ug/L		042613 1336	TMB	SW8260B	£
Surrogate: Dibromoftworomethane		100%	86-118		042613 1336		SW8260B	
Surrogate, 1,2-Dichloroethane-d4		95.1%	80-120		042613 1336		SW8260B	
Surrogate, Tolwene-d8		103%	88-110		042613 1336		SW8260B	
Surroguie: 4-Bromofluorobenzene		102%	86-115		042613 1336		SW8260B	

Black Swamp WWTP

13D1303-04 (Sludge) Sampled: 04/16/2013 10:35; Type: Composite

		Reporting						
Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
	Micro	obac Labor	atories, Inc., E	altimore Divisi	ion			
Wet Chemistry			·····					
% Solids	29.84	0.05	% by Weight	042513 1300	042613 0000	LCR	SM (20) 2540G	
pH	6.99	0.100	pH Units	043013 1007	043013 1152	LCR	EPA 9045D	
General Chemistry	ege en formande françois feit de still feit gene de grown au general en de de de still de still de still de st						-imply which is a line of the same in the	elektronyayan girlikasa erin kananan
Paint Filter Free Liquid	NEGATIVE		P/A	050213 2017	050213 2018	EDP	EPA 9095A	

Microbac Laboratories, Inc., Richmond Division

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Curtis B. Read. Project Manager



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CERTIFICATE OF ANALYSIS

Sussex Service Authority Mike Kearns 4385 Beef Steak Road Waverly, VA 23890 Project: WWTP Sludge Recertification Analysis
Project Number: WWTP Sludge Recertification Analysis

Sampled By: C. Bohatec, M.P. Kearns

Report: 13D1303

Reported: 05/09/2013 11:53

Black Swamp WWTP

13D1303-04 (Sludge) Sampled: 04/16/2013 10:35; Type: Composite

		Reporting						
Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
	Micro	bac Laborat	ories, Inc.,	Baltimore Divis	ion			
TCLP Extraction by EPA 1311			<u></u>				00-farra-11-2-1	Section and the section of the secti
TCLP Extraction	COMPLETED		N/A	042613 1448	042713 1134	EDP	EPA 1311	
TCLP Metals by 6000/7000 Seri	ies Methods		~*************************************				nyn a maest my dieber en mer kafe och hav den Dre Malbill begreten men ense senan e	
Silver	ND	0.20	mg/L	042913 0908	042913 1309	APS	EPA 6010B	D
Arsenic	ND	0.20	mg/L	042913 0908	042913 1309	APS	EPA 6010B	D
Barium	0.55	0.50	mg/L	042913 0908	042913 1309	APS	EPA 6010B	D
Cadmium	ND	0.20	mg/L	042913 0908	042913 1309	APS	EPA 6010B	D
omium	ND	0.20	mg/L	042913 0908	042913 1309	APS	EPA 6010B	D
Mercury	ND	0.0020	mg/L	042913 1647	043013 1522	APS	EPA 7470A	D
Lead	ND	0.20	mg/{_	042913 0908	042913 1309	APS	EPA 6010B	D
Selenium	ND	0.20	mg/I	042913 0908	042913 1309	APS	EPA 6010B	D
Analysis Performed on ASTM I	D 3987 Water Leachate							400-00-00-00-00-00-00-00-00-00-00-00-00-
Oil & Grease	ND	5.0	mg/L	050213 1145	050213 1153	BAB	ASTM 1987/EPA (GG-LA	

Spring Branch WWTP

13D1303-05 (Sludge) Sampled: 04/16/2013 11:55; Type: Composite

		Reporting						
Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
	Micro	bac Laborat	tories, Inc., B	ultimore Divis	sion			
Wet Chemistry			and a contract of the contract			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
% Solids	ND	0.05	o by Weight		042213 0000	1.CR	SM (20) 2540G	
	M	icrobac Labo	oratories, Inc.	- Ohio Valley	;			
8270 TC				<u> </u>				

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Curtis B Read. Project Manager

Appendix E VPDES Permit Application Addendum

VPDES Permit Application Addendum

1. Entity to whom the permit is to be issued: Sussex Service Authority								
Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.								
2. Is this facility located within city or town boundaries? Yes No X								
3. Provide the tax map parcel number for the land where the discharge is located. 15-A-20								
4. For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities? ~ 7								
5. What is the design average effluent flow of this facility? 0.6 / 0.9 / 1.6 MGD For industrial facilities, provide the max. 30-day average production level, include units:								
In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Yes X No								
Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to expand operations during the next five years? Is your facility's design flow considerably greater than your current flow?								
6. Nature of operations generating wastewater:								
99 % of flow from domestic connections/sources								
Number of private residences to be served by the treatment works: _~3,300								
1< % of flow from non-domestic connections/sources								
7. Mode of discharge : X Continuous								
8. Identify the characteristics of the receiving stream at the point just above the facility's discharge point:								
Permanent stream, never dry								
Intermittent stream, usually flowing, sometimes dry Ephemeral stream, wet-weather flow, often dry								
X Effluent-dependent stream, usually or always dry without effluent flow								
Lake or pond at or below the discharge point								
X Other: Un-Named Tributary to Black Swamp								
Other. On Parined Modelly to Black Swamp								
9. Approval Date(s):								
O & M Manual O 6 /14 / 14 Sludge/Solids Management Plan 12/2/2015								

10. Privately Owned Treatment Works

If this application is for a privately owned treatment works serving, or designed to serve, 50 or more residences, you must include with your application notification from the State Corporation Commission that you are incorporated in the Commonwealth and verification from the SCC that you are in compliance with all regulations and relevant orders of the State Corporation Commission. Incorporated also includes Limited Liability Companies (LLCs), Limited Partnerships (LPs) and certificates of authority.

11. Consent to receive electronic mail

The Department of Environmental Quality (DEQ) may deliver permits and certifications (this includes permit issuances, reissuances, modifications, revocation and reissuances, terminations and denials) to recipients, including applicants or permittees, by electronically certified mail where the recipients notify DEQ of their consent to receive mail electronically (§ 10.1-1183). Check *only one* of the following to consent to or decline receipt of electronic mail from DEQ as follows:

X	Applicant or permittee agrees to receive by electronic mail the permit that may be issued for the proposed pollutant management activity, and to certify receipt of such electronic mail when requested by the DEQ.
	If yes, provide email: firving@ssa-va.org
	Applicant or permittee declines to receive by electronic mail the permit that may be issued for the proposed pollutant management activity.